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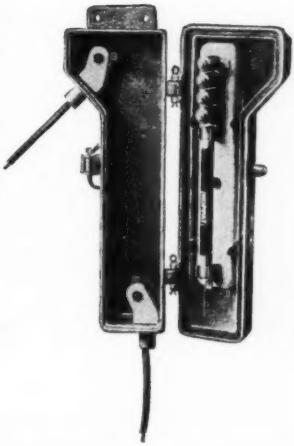

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OF THE

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   To make a study of catalog descriptions of courses of study.

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   Study of the methods of admission to engineering schools including European schools.

9. **Committee on Administration:** W. M. Thornton, *Chairman,* F. H. Constant, C. H. Benjamin, W. M. Riggs, R. W. Gay, O. V. P. Stout, A. H. Fuller.

   Occupation of engineering teachers during the summer vacation.

   (1) Present status of summer employment.

   (2) Opportunities for such employment.

   (3) Fields recommended.

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To what extent does co-ordination exist between mathematics, physics and mechanics.

11-A. **Committee on Physics:** G. W. Stewart, *Chairman,* F. K. Richtmyer, Barry MacNutt, C. F. Burgess, H. H. Higbie.

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Continue the study of the present status of the teaching of English to engineers.

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Continue the work as outlined for the previous year and try to complete the report.

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AGG, T. R., Professor of Highway Engineering, Iowa State College, Ames, Ia. 1915

AKELEY, L. E., Dean of the College of Engineering and Professor of Physics, University of South Dakota, Vermilion, S. D.... 1910

ALBERT, C. E., Instructor in Mechanics and Materials of Construction, The Pennsylvania State College, State College, Pa 1914

ALDERSON, Victor C., President, Winnemucca Bonanza Mining Co., Winnemucca, Nev. 1900

ALDRICH, WM. S., Associate Professor of Electrical Engineering, Colorado Agricultural College, Fort Collins, Colo. 1893

ALEXANDER, M. W., With the General Electric Co., West Lynn, Mass. 1911

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ALLEN, C. F., 88 Montview St., West Roxbury, Mass. 1893

ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass..... 1903

ALLEN, F. G., Assistant Professor in General Engineering Drawing, University of Colorado, Boulder, Colo. 1913

ALLEN, J. R., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1907

ALLISON, W. F., Professor of Municipal and Highway Engineering, University of Washington, Seattle, Wash. 1915

ANDERSON, A. H., Assistant Professor of Mechanical Engineering, Armour Institute of Technology, Chicago, Ill. 1910

ANDERSON, D. S., Professor of Electrical Engineering, Tulane University, New Orleans, La. 1900

ANDERSON, F. PAUL, Dean of the College of Mechanical and Electrical Engineering, Professor of Mechanical Engineering and Director of the Experiment Engineering Laboratories, University of Kentucky, Lexington, Ky. 1894

ANDERSON, G. G., Consulting Civil Engineer, 336–337 Consolidated Realty Bldg., Los Angeles, Cal. 1910

ANDERSON, R. J., Instructor in Metallurgy, Missouri School of Mines, Rolla, Mo. 1915

ANDERSON, WILLIAM, Assistant Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1910

ANDREWS, W. H., Associate Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1912

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ANTHONY, G. C., Professor of Technical Drawing and Dean of the Engineering School, Tufts College, Tufts College, Mass..... 1896

APPLEBY, W. R., Dean of the Minnesota School of Mines and Professor of Metallurgy, University of Minnesota, Minneapolis, Minn. 1913

APPLETON, W. D., Mechanical Engineer, The Guanajuato Power and Electric Co., Zamora, Michoacan, Mexico..... 1907

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ARD, C. E., Consulting and Contracting Engineer, 402 American Trust Bldg., Birmingham, Ala. 1911

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ARNETT L. D., Librarian, West Virginia University, Morgantown, W. Va. 1915

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ASHTON, C. H., Professor of Mathematics, University of Kansas, Lawrence, Kans. 1915

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AYER, A. W., Factory Manager, Midland Chemical Co., Chicago, Ill. 1894

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BABBITT, ARTHUR B., Head of the Department of Drawing and Design, Wentworth Institute, Boston, Mass. 1912

BABCOCK, E. J., Dean of the College, Professor of Industrial Chemistry and Metallurgy and Director of Experimental Engineering Stations, University of North Dakota, Grand Forks, N. D. 1907

BACHE-WIIG, Jens, Professor of Electrical Engineering, Norwegian Technical University, Trondhjem, Norway, Europe 1914

BACON, G. M., Civil Engineer, 311 Newhouse Bldg., Salt Lake City, Utah 1907

BAEBENROTH, A. C., Professor and Head of Department of English, College of Applied Science, Syracuse University, Syracuse, N. Y. 1915

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BAKER, IRA O., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1893

BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908

BANKSON, E. E., Lecturer in Hydraulics and Municipal Engineering, University of Manitoba, Winnipeg, Man. 1910

BARBA, C. E., Supt. Artillery Department, Midvale Steel Co., Philadelphia, Pa. 1915

BARK, ELMER, Repairs and Construction Dept., The Barrett Co., (Chemical Dept.) Frankford, Pa. 1912

BARNARD, W. N., Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

BARNES, A. F., Dean School of Engineering, New Mexico College of A. & M. Arts, State College, New Mex. 1914

BARNES, F. A., Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1904

BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912

BARNEY, S. E., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1894

BARRACLOUGH, S. H. E., Professor of Mechanical Engineering, University of Sydney, Sydney, Australia. 1900

BARROWS, H. K., Associate Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902

BARROWS, W. E. JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908

BARTHOLOMEW, H. C., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

BARTON, E. C., Engineer and Manager, City Electric Light Co., Brisbane, Queensland, Australia 1914

BASQUIN, O. H., Professor of Applied Mechanics, Northwestern University, Evanston, Ill. 1908

BASS, FREDERIC, Professor of Municipal and Sanitary Engineering, University of Minnesota, Minneapolis, Minn. 1904

BATES, J. T., Assistant Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1912

BATES, ONWARD, Civil Engineer, 332 S. Michigan Ave., Chicago, Ill. 1903

BATES, W. H., Associate Professor of Mathematics, Purdue University, LaFayette, Ind. 1917

BAUER, F. S., Assistant Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914

BAUER, W. C., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910

BAUM, WM., Dean, Electrical Engineering Department, School of Engineering of Milwaukee, Milwaukee, Wis. 1916

BEAVER, J. L., Senior Instructor in Electrical Engineering, Drexel Institute, Philadelphia, Pa. 1914

BECKER, A. J., Professor of Applied Mathematics, University of North Dakota, Grand Forks, N. D. 1907

BEGGS, G. E., Assistant Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915

BELL, J. M., Professor of Physical Chemistry, University of North Carolina, Chapel Hill, N. C. 1914

BELLIS, A. E., Professor of Physics, University of Wyoming, Laramie, Wyo. 1914

BELSKY, C. J., 1367 Jackson St., Dubuque, Ia. 1913

BENEDICT, B. W., Director of Shop Laboratories, University of Illinois, Urbana, Ill. 1912

BENEDICT, H. G., Consulting Engineer, Newark, N. J. 1913

BENEDICT, H. Y., Professor of Applied Mathematics and Dean of the College of Arts, University of Texas, Austin, Texas..... 1906

BENJAMIN, C. H., Dean of the Schools of Engineering, Purdue University, LaFayette, Ind. 1893

BENKERT, H. N., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1909

BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1909

BENTON, J. R., Professor of Physics and Electrical Engineering, and Dean of the College of Engineering, University of Florida, Gainesville, Fla. 1905

BENZENBERG, G. H., Consulting Civil Engineer, Retired, 255 Greenbush St., Milwaukee, Wis. 1907

BERARD, S. J., Instructor in Machine Design, Yale University, New Haven, Conn. 1912

BERENTS, H., Consulting Civil Engineer, 13 Nanking Road, Shanghai, China 1911

BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

BERGER, F. A., Assistant Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1910

BERRESFORD, A. W., Vice-President and General Manager, The Cutler-Hammer Mfg. Co., Milwaukee, Wis. 1911

BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. 1916

BERRY, W. J., Assistant Professor of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y..... 1910

BETTS, PHILANDER, Chief Engineer, Public Utility Commission of New Jersey, Newark, N. J. 1907

BEVAN, W. A., Assistant Professor of Physics, Oregon Agricultural College, Corvallis, Ore. 1915

BEYER, S. W., Vice-Dean of the Division of Engineering and Professor of Geology and Mining Engineering, Iowa State College, Ames, Ia. 1899

BIEGLER, P. S., Assistant Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1908

BIERMA, A. G., Professor in charge of Mechanical Engineering, University of Detroit, Detroit, Mich. 1913

BIRD, H. C., Associate Professor of Civil Engineering, Pennsylvania Military College, Chester, Pa. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRD, WM. W., Professor of Mechanical Engineering, and Director of the Washburn Shops, Worcester Polytechnic Institute, Worcester, Mass. 1910

BISHOP, C. T., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Dean School of Engineering, Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1907

BISSELL, G. W., Dean of Engineering and Professor of Mechanical Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

BITTING, H. S., President of the Williamson Free School of Mechanical Trades, Williamson School, Delaware Co., Pa. 1909

BLACK, H. F., Professor of Mathematics and Assistant Professor of Engineering, Valparaiso University, Valparaiso, Ind. 1915

BLACK, R. M., Assistant Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLACKBURN, H. W., Instructor in Mechanical Engineering, and Superintendent of Buildings and Grounds, University of Vermont, Burlington, Vt. 1912

BLAIR, T. A., Draftsman, Robt. McF. Doble, Consulting Engineer, Placerville, Colo. 1913

BLAKESLEE, D. W., Electrical Engineer and Assistant Supt., Penn Electrical and Mfg. Co., Irwin, Pa. 1914

BLANCHARD, A. H., Professor in charge of Graduate Course in Highway Engineering, Columbia University, Practicing Highway Engineer, New York, N. Y. 1902

BLAND, J. C., Engineer of Bridges, Pennsylvania Lines West of Pittsburgh, Pittsburgh, Pa. 1911

BLESSING, G. F., Professor of Mechanical Engineering, in charge of Engineering, Swarthmore College, Swarthmore, Pa. 1910

BLISS, COLLINS P., Professor of Mechanical Engineering, New York University, New York, N. Y. 1915

BLOEMKER, CHAS. W., Instructor in Forging, University of Pennsylvania, Philadelphia, Pa. 1912

BLUME, L. F., Electrical Engineer, General Electric Co., Pittsfield, Mass. 1911

BOARDMAN, H. P., Professor of Civil Engineering, University of Nevada, Reno, Nev. 1914

BOARDMAN, H. S., Dean of the College of Technology and Professor of Civil Engineering, University of Maine, Orono, Me..... 1903

BOGARD, FRANK, Supt., Mechanical and Electrical Engineering Courses, Louisiana Industrial Institute, Ruston, La. 1914

BOLTON, F. C., Professor of Electrical Engineering, Texas A. and M. College, College Station, Texas 1910

BOOMSLITER, G. P., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1912

BOOTHROYD, S. L., Associate Professor of Mathematics and Astronomy, in charge of the Observatory, University of Washington, Seattle, Wash. 1908

BOWERMAN, M. R., Assistant Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1909

BOYD, ALFRED, Dean, School of Engineering, and Professor of Civil Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1909

BOYD, J. E., Professor of Mechanics, The Ohio State University, Columbus, O. 1907

BOYER, F. Q., Engineer of Tests, The H. B. Smith Co., Westfield, Mass. 1912

BOYLE, A. C., JR., Professor of Mining Engineering and Geology, University of Wyoming, Laramie, Wyo. 1911

BOZELL, H. V., Professor of Electrical Engineering and Director School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1912

BRACKETT, B. B., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1906

BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896

BRASEFIELD, S. E., Professor of Applied Mathematics, Rutgers College, New Brunswick, N. J. 1916

BRATTON, W. A., Professor of Mathematics and Dean of Science Group, Whitman College, Walla Walla, Wash. 1911

BRAUNE, G. M., Assistant Professor of Civil Engineering, University of Cincinnati, Cincinnati, Ohio..... 1914

BRAY, G. E., Industrial Engineer, Kansas State Agricultural College, Manhattan, Kans. 1915

BRAY, H. C. C., Instructor to the Apprentices, Nova Scotia Steel and Coal Co., Ltd., New Glasgow, Nova Scotia, Canada 1916

BRECKENRIDGE, L. P., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn.... 1893

BREED, C. B., Professor of Railroad Engineering, Massachusetts Institute of Technology, Boston, Mass. 1904

BREHMER, W. G. H., Instructor in Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1914

BRIDGMAN, J. N., Associate Professor of Civil Engineering, University of Nebraska, Lincoln, Neb. 1913

BRINGHURST, J. H., Associate in Civil Engineering, Johns Hopkins University, Baltimore, Md. 1915

BRODIE, HUGH, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1915

BROOKE, W. E., Head of Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1902

BROOKS, J. ANSEL, Associate Professor of Mechanics and Mechanical Drawing, Brown University, Providence, R. I. 1904

BROOKS, J. P., President, Clarkson College of Technology, Potsdam, N. Y. 1898

BROOKS, MORGAN, Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROUEN, J. M., Professor of Civil Engineering, University of South Dakota, Vermillion, S. D. 1916

BROWN, A. I., Instructor in Mechanical Engineering, The Ohio State University, Columbus, O. 1914

BROWN, CARROLL G., Laboratory Director, Rochester Railway & Light Co., Rochester, N. Y. 1914

BROWN, CHAS. B., Professor of Civil Engineering, University of Maine, Orono, Me. 1912

BROWN, F. L., Assistant Professor of Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, HENRY B., President, Valparaiso University, Valparaiso, Ind., ... 1908

BROWN, H. W., Instructor in Electrical Engineering Cornell University, Ithaca, N. Y. 1916

BROWN, (Mrs.) KATHARINE D., Professor of Technical English, Drexel Institute, Philadelphia, Pa. 1914

BROWN, S. L., Adjunct Professor of Physics, University of Texas, Austin, Tex. 1914

BROWNE, EDWARD T., Instructor in Mathematics, University of Virginia, University, Va. 1915

BROWNE, WM. HAND, Jr. Professor of Physics and Electrical Engineering, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1899

BRUEGEL, A. T., Secretary, The Hess-Bright Mfg. Co., Front St. and Erie Ave., Philadelphia, Pa. 1900

BRYANS, W. R., Associate Professor in the School of Applied Science, New York University, New York, N. Y. 1908
BRYANT, J. M., Professor of Electrical Engineering, University of Texas, Austin, Tex. 1910
BRYDONE-JACK, E. E., Professor of Civil Engineering, University of Manitoba, Winnipeg, Man. 1902
BUCK, A. M., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. 1910
BUMP, M. R., Chief Engineer, Henry L. Doherty & Co., 60 Wall St., New York, N. Y. 1907
BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910
BURGESS, C. F., Chemical Engineer and President of C. F. Burgess Laboratories, Madison, Wis. 1896
BURNSIDE, C. H., Associate Professor of Mechanics, Columbia University, New York, N. Y. 1910
BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910
BURR, W. H., Emeritus Professor of Civil Engineering, Columbia University, New York, N. Y. 1893
BURSLEY, J. A., Associate Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1910
BURT, H. J., Structural Engineer, Holabird & Roche, Architects, 1027 Elmwood Ave., Wilmette, Ill. 1910
BURTON, A. E., Professor of Topographical Engineering, in charge of Department of Drawing, and Dean of the Massachusetts Institute of Technology, Cambridge, Mass. 1904
BUSH, VANNEVAR, Assistant Professor of Electrical Engineering Tufts College, Tufts College, Mass. 1917
BUTLER, G. M., Dean, College of Mines and Engineering, University of Arizona, Tucson, Ariz. 1916
BUTTERFIELD, A. D., Professor of Mathematics and Geodesy, Worcester Polytechnic Institute, Worcester, Mass. 1908
BUYERS, D. E., American Steam Pump Co., Battle Creek, Mich. ... 1914
CAJORI, FLORIAN, Dean of the Department of Engineering, Professor of Mathematics, Colorado College, Colorado Springs, Colo. 1904
CALDERWOOD, J. P., Associate Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1909
CALDWELL, EDWARD, Treasurer of the McGraw-Hill Book Co., Inc., 239 W. 39th St., New York, N. Y. 1905
CALDWELL, F. C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1897

CALLAGHAN, R. T., Professor of Civil Engineering, Christian Brothers College, St. Louis, Mo. 1914

CALLAN, J. A. C., Assistant Professor of Surveying and Drawing, Union University, Schenectady, N. Y. 1909

CALNAN, J. W., Instructor in charge of Department of Chemistry, Franklin Union, Boston, Mass. 1910

CANNON, J. H., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1915

CARLSON, W. W., Associate Professor of Shop Practice and Superintendent of Shops, Kansas State Agricultural College, Manhattan, Kans. 1912

CARMICHAEL, F. L., Assistant Professor of Mathematics, University of Alabama, University, Ala. 1916

CARNEGIE, ANDREW, 2 E. 91st St., New York, N. Y. (Life Member). 1911

CARPENTER, DAN E., Manager of Education, International Textbook Co., Scranton, Pa. 1915

CARPENTER, H. D., 10759 Prospect Ave., Chicago, Ill. 1910

CARPENTER, HUBERT V., Professor and Head of Depts. of Mechanical and Electrical Engineering, State College of Washington, Pullman, Wash. 1917

CARPENTER, L. G., Consulting Engineer, 707 First National Bank Bldg., Denver, Colo. 1895

CARPENTER, RANDLE C., Professor of Mechanical Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1914

CARROLL, H. H., Assistant Professor Technical Drawing, Tufts College, Tufts College, Mass. 1911

CARSON, W. W., Emeritus Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1894

CARTER, CHAS. J., Instructor in Machine and Foundry Practice, University of Maine, Orono, Me. 1913

CARTER, H. G., Assistant Electrical Engineer, Public Works Department, Sydney, New South Wales, Australia 1914

CARTY, J. J., Chief Engineer, American Telephone and Telegraph Co., 195 Broadway, New York, N. Y. 1907

CASE, G. W., Professor of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

CATLIN, W. G., Electrical Engineer, Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. 1912

CAUGHEY, R. A., Assistant Professor of Civil Engineering, Pennsylvania State College, State College, Pa. 1911

CHANDLER, E. F., Professor of Civil Engineering, and in charge of Civil Engineering Course, University of North Dakota, University, N. D. 1907

CHANEY, GEO. A., Associate Professor of Mathematics, Iowa State College, Ames, Ia. 1914
CHARAVAY, M. A., Assistant Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
CHARLES, ROLLIN L., Assistant Professor of Physics, Lehigh University, South Bethlehem, Pa. 1914
CHASE, C. H., Professor of Steam Engineering, Tufts College, Tufts College, Mass. 1900
CHASE, L. W., Professor of Agricultural Engineering, University of Nebraska, Lincoln, Nebr. 1910
CHATBURN, G. R., Professor and Head of the Department of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1899
CHEDSEY, W. R., Assistant Professor of Mining, Colorado School of Mines, Golden, Colo. 1915
CHESNEY, C. C., Manager and Chief Engineer, General Electric Co., Pittsfield, Mass. 1911
CHILDS, A. T., General Electric Co., Pittsfield, Mass. 1912
CHRISTENSEN, GEO. L., Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1905
CHRISTIAN, J. W., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1914
CHURCH, E. F., JR., Professor of Machine Design and Construction, West Virginia University, Morgantown, W. Va. 1910
CHURCH, I. P., Emeritus Professor of Applied Mechanics and Hydraulics, Cornell University, Ithaca, N. Y. 1910
CLAPP, W. H., Associate Professor of Mechanism and Machine Design, Throop College of Technology, Pasadena, Calif. 1914
CLARK, J. C., Assistant Professor of Electrical Engineering, Leland Stanford Jr. University, Stanford University, Calif. 1912
CLARKSON, R. P., Professor of Engineering, Acadia University, Wolfville, N. S. 1915
CLEGHORN, M. P., Associate Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910
CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1907
CLIFTON, H. T., Teacher in Physics and Geology, and Registrar, Pasadena High School, Pasadena, Calif. 1907
CLOKE, PAUL, Professor of Physics, Clarkson College of Technology, Potsdam, N. Y. 1911
COAHRAN, J. M., Professor of Electrical Engineering, Villanova College, Villanova, Pa. 1916

COBB, COLLIER, Professor and Head of the Department of Geology and Mineralogy, University of North Carolina, Chapel Hill, N. C. 1916

COBB, H. E., Professor and Head of Department of Mathematics, Lewis Institute, Chicago, Ill. 1908

CODDINGTON, E. F., Professor of Mechanics, The Ohio State University, Columbus, O. 1911

CODWISE, H. R., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

COFFIN, C. A., Chairman, Board of Directors, General Electric Co., 30 Church St., New York, N. Y. 1911

COMSTOCK, C. E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn. 1907

COMSTOCK, F. M., Professor of Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1907

CONKLING, L. D., Professor of Civil Engineering, Montana State A. & M. College, Bozeman, Mont. 1912

CONNER, S. L., Assistant Professor of Railroad Engineering, Tufts College, Tufts College, Mass. 1912

CONRAD, L. E., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1908

CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1896

COOK, A. L., Head of the Dept. of Applied Electricity, Pratt Institute, Brooklyn, N. Y. 1913

COOK, PAUL, President of W. & L. E. Gurley, and Treasurer of Rensselaer Polytechnic Institute, Troy, N. Y. 1913

COOK, ROBERTSON, Professor of Experimental Engineering, South Dakota State College, Brookings, S. D. 1913

COOKE, M. L., Consulting Engineer, 401 W. Walnut Lane, Germantown, Philadelphia, Pa. 1910

COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1893

COOMBS, S. E., Special Engineer, N. Y. C. & H. R. R. R. and Instructor in Mechanical Drawing, New York Evening High School for Men, Room 2619, Grand Central Terminal, New York, N. Y. 1913

COOPER, F. E., Management Engineer, with Boyden & Steacie, Boston, Mass. 1915

COOPER, F. L., Instructor in Physics, Yale University, New Haven, Conn. 1912

COPPERSMITH, C. W., Assistant Professor of Machine Design, Case School of Applied Science, Cleveland, O. 1915

CORBETT, L. J., Professor of Electrical Engineering, University of Idaho, Moscow, Ida. 1912

CORBIN, C. E., Professor of Engineering and Applied Mathematics, College of the Pacific, San Jose, Calif. 1917

CORNELL, W. R., Instructor in Applied Mechanics, Cornell University, Ithaca, N. Y. 1910

CORP, C. I., Associate Professor of Hydraulic Engineering, University of Wisconsin, Madison, Wis. 1910

CORY, C. L., Dean, College of Mechanics and Professor of Electrical Engineering, University of California, Berkeley, Calif. 1915

COSTELLOE, M. F. P., Professor Agricultural Engineering, and Acting Chairman for the Dept. of Agricultural Engineering, Iowa State College, Ames, Ia. 1915

COSTER, E. L., Literary Engineer, 25 Broad St., Room 1440, New York, N. Y. (Life Member) 1911

COVELL, G. A., Dean of the School of Engineering and Mechanic Arts, Oregon Agricultural College, Corvallis, Ore. 1908

COX, J. J., Assistant Professor of Civil Engineering, in charge of Highway Engineering, University of Michigan, Ann Arbor, Mich. 1915

CRAIG, OLLISON, Laclede Christy Clay Products Co., St. Louis, Mo. . 1913

CRANDALL, CARL, Instructor in Civil Engineering, Cornell University, Ithaca, N. Y. 1914

CRANDALL, CHAS. L., Professor Emeritus of Railroad Engineering, Cornell University, Ithaca, N. Y. 1893

CRANE, H. G., Instructor in Electrical Engineering, Harvard University, Cambridge, Mass. 1908

CRAWFORD, D. F., General Manager, Pennsylvania Lines, and Director of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

CRAWFORD, I. C., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1913

CREAGMILE, WM. B., School of Engineering, Drexel Institute, Philadelphia, Pa. 1909

CREIGHTON, E. E. F., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1910

CREIGHTON, W. H. P., Dean of the College of Technology and Professor of Mechanical and Sugar Engineering, Tulane University, New Orleans, La. 1893

CRENSHAW, B. H., Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala. 1894
CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912
CROSBY, W. W., Consulting Engineer and Chief Engineer, Maryland Geological and Economic Survey, 1431 Munsey Bldg., Baltimore, Md. 1911
CROSS, HARDY, Assistant Professor of Civil Engineering, Brown University, Providence, R. I. 1912
CROUCH, C. H., Professor of Mechanical Engineering and Director of Shops, University of North Dakota, Grand Forks, N. D. 1907
CROW, RAY, 603 W. Camanche St., Norman, Okla. 1913
CROWE, C. P., 1627 N. High St., Columbus, O. 1913
CRUM, R. W., Associate Professor of Experimental Engineering, Iowa State College, Ames, Ia. 1912
CULLIMORE, A. R., Professor of Civil Engineering and Dean of Engineering, Delaware College, Newark, Del. 1914
CURTIS, A. J. R., Director, Extension Division, Portland Cement Association, 111 W. Washington St., Chicago, Ill. 1916
CURTIS, L. F., Instructor in Electrical Engineering, University of Washington, Seattle, Wash. 1913
DADOURIAN, H. M., Instructor in Physics, Yale University, New Haven, Conn. 1913
DAGGETT, P. H., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910
DALAKER, H. H., Assistant Professor of Mathematics, in Engineering College, University of Minnesota, Minneapolis, Minn. 1909
DALBURG, F. A., Superintendent, Arctic Coal Co., Advent Bay, Spitsburgen, Pa. 1908
DALTON, B. J., Assistant District Engineer, Interstate Commerce Commission, Inter State Bldg., Kansas City, Mo. 1907
DAMON, GEORGE A., Dean, Throop College of Technology, Pasadena, Calif. 1911
DANFORTH, R. H., Professor of Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1914
DANIELS, JOSEPH, Assistant Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910
DARGAN, F. T., Professor of Electrical Engineering, Clemson A. & M. College of South Carolina, Clemson College, S. C. 1912
DATES, H. B., Professor of Electrical Engineering, Case School of Applied Science, Cleveland, O. 1904
DAVIDSON, J. B., Professor of Agricultural Engineering, University of California, University Farm, Davis, Cal. 1915

DAVIS, E. W., Dean College of Arts and Science, and Head of Department of Mathematics, University of Nebraska, Lincoln, Nebr. 1902

DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1913

DAVIS, JAS. C., Assistant Professor of Mechanical Drawing, Worcester Polytechnic Institute, Worcester, Mass. 1909

DAVIS, JOHN C., Dean of the College of Applied Science and Engineering, Marquette University, Milwaukee, Wis. 1908

DAVIS, R. E., Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1913

DAVIS, R. P., Professor of Structural and Hydraulic Engineering, West Virginia University, Morgantown, W. Va. 1912

DAVOUD, V. Y., Electrical and Mechanical Engineer, The Telluride Power Co., Provo, Utah..... 1911

DAWES, C. L., Instructor in Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1915

DAY, CHARES, Manager of the firm of Day & Zimmerman, 611 Chestnut St., Philadelphia, Pa. 1911

DEARBORN, C. S., Mechanical Engineer, Blythe, Calif. 1910

DEARBORN, R. H., Head, Dept. of Electrical Engineering Oregon Agricultural College, Corvallis, Ore. 1917

DEFOE, L. M., Professor of Mechanics, University of Missouri, Columbia, Mo. 1904

DEIMEL, R. F., Assistant Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. 1909

DELAY, F. A., Head Instructor, Chicago Central Station Institute, 72 W. Adams St., Chicago, Ill. 1909

DEMOREST, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913

DENN, H. H., Senior Instructor in Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1914

DENNISON, B. C., Assistant Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1912

DENNY, GEO. H., President, University of Alabama, University, Ala. 1913

DENT, J. A., Associate in Mechanical Engineering, University of Illinois, Urbana, Ill. 1911

DENTON, F. W., General Manager of Mines, Copper Range Co., Painesdale, Mich. 1894

DEPUY, C. E., Professor of Machine Construction, Lewis Institute, Chicago, Ill. 1908

DERLETH, CHAS., JR., Professor of Civil Engineering and Dean of the College of Civil Engineering, University of California, Berkeley, Calif. 1904

DESCHWEINITZ, P. B., Professor of Machine Design, Lehigh University, South Bethlehem, Pa. 1912

DETURK, J. A., Instructor in Machine Shop Practice, University of Illinois, Urbana, Ill. 1915

DIBERT, H. M., Civil Engineer with W. & L. E. Gurley, Troy, N. Y. 1913

DICKERSON, H. S., Professor of Mechanical Engineering, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1912

DICKINSON, L. P., Professor of Physics and Electrical Engineering, Rhode Island State College, Kingston, R. I. 1914

DIEDERICHS, HERMAN, Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915

DIEMER, HUGO, Professor of Industrial Engineering, Pennsylvania State College, State College, Pa. 1902

DIETZ, J. W., Manager, Educational Department, Western Electric Co. Inc., Hawthorne Station, Chicago, Ill. 1911

DILLINGHAM, ALEXANDER, Assistant Professor of Mathematics, Tufts College, Tufts College, Mass. 1912

DOBBS, F. E., Instructor in Estimating and Practical Mathematics, Wentworth Institute, Boston, Mass. 1912

DOGGETT, L. A., Professor of Electrical Engineering, U. S. Naval Academy, Annapolis, Md. 1914

DOHERTY, H. L., President, Cities Service Company, 60 Wall St., New York, N. Y. 1904

DOLAND, J. J., 3132 W. 22d Ave., Denver, Colo. 1914

DOMONOSKE, ARTHUR B., 1172 C St., Hayward, Cal. 1913

DOOLEY, C. R., Manager, Educational Dept., Westinghouse Electric and Mfg. Co., and President of the Casino Technical Night School, East Pittsburgh, Pa. 1907

DORROH, J. H., Dean, School of Engineering, Professor of Civil Engineering, University of Mississippi, University, Miss. 1917

DORSEY, J. W., Assistant Professor of Electrical Engineering, University of Manitoba, Winnipeg, Man. 1909

DOUGHERTY, H. R., Professor and Head of Department of Mathematics, New York Military Academy, Cornwall-on-Hudson, N. Y. 1915

DOUGHERTY, N. W., Associate Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1914

DOUGLAS, J. F. H., Instructor in Physics, Iowa State College, Ames, Ia. 1910

DOWELL, DAWSON, Instructor in Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1917
DRAGOUN, F. A., Instructor in Civil Engineering, Iowa State College, Ames, Ia. 1915
DRANE, W. H., Professor of Mathematics and Engineering, Cumberland University, Lebanon, Tenn. 1903
DREYER, C. F., Head of the Department of Mechanical Engineering, Escola de Engenharia, Porto Alegre, Brazil 1913
DRINKER, H. S., President, Lehigh University, South Bethlehem, Pa. 1905
DROWNE, H. B., Engineer, Lane Construction Corporation, Meriden, Conn. 1908
DUCEY, E. J., Draftsman, Lecturer on Structural Design, Fort Pitt Bridge Works, Canonsburg, Pa. 1915
DUFF, C. M., Hallsville, Mo. 1912
DUFFY, C. F., Professor of Science, Head of Dept. University of Porto Rico, Rio Piedras, P. R. 1916
DUFOUR, F. O., Senior Structural Engineer, Division of Valuation, Interstate Commerce Commission, 914 Karpen Bldg., Chicago, Ill. 1906
DUKES, R. G., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907
DUNCAN, M. M., General Manager, Cleveland Cliffs Iron Co., and Member Board of Control, Michigan College of Mines, Ishpeming, Mich. 1905
DUNHAM, HEBER, Assistant Professor of Engineering Drawing, New York University, New York, N. Y. 1914
DUNKIN, W. V., Chief Draftsman, Experimental Department, Deere & Co., 1656 30th Ave., Moline, Ill. 1908
DUNLAP, J. H., Assistant Professor of Hydraulics and Sanitary Engineering, State University of Iowa, Iowa City, Ia. 1916
DUNMORE, G. B., Professor of Drafting, Whitman College, Walla Walla, Wash. 1911
DUNN, GANO, President, J. G. White Engineering Corporation, 43 Exchange Place, New York, N. Y. 1911
DUNSTAN, E. V., Professor of Civil Engineering, George Washington University, Washington, D. C. 1909
DUPONT, T. C., Wilmington, Del. (Life Member) 1910
DURAND, W. F., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899
DURHAM, GLEN G., Salesman, 616 Heed Bldg., Philadelphia, Pa. .. 1913
DWIGHT, H. B., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1912
DYCHE, H. E., Assistant Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

DYER, F. C., Lecturer in Mining Engineering, Faculty of Applied Science, University of Toronto, Toronto, Ont., Canada 1913

DYSART, P. M., Physics Dept., Schenley High School, Pittsburgh, Pa. 1911

EARLE, S. B., Director of the Engineering Department, and Professor of Mechanical Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1912

EARLE, S. C., Professor of English, Engineering School, Tufts College, Mass. 1909

EASBY, WM., JR., Professor of Municipal Engineering, University of Pennsylvania, Philadelphia, Pa. 1908

EATON, G. S., Assistant Professor of Civil Engineering, Clemson College, Clemson College, S. C. 1917

EATON, J. S., Instructor in Mechanical Practice, University of Vermont, Burlington, Vt. 1914

EBAUGH, W. C., Consulting Chemist, 809 Kearns Bldg., Salt Lake City, Utah 1908

ECKEL, C. L., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1914

ECKHARD, G. F., Professor of Structural Engineering, University of Vermont, Burlington, Vt. 1910

EDDISON, W. BARTON, Chief Engineer, Surface Combustion Co., New York, N. Y. 1914

EDDY, C. L., Assistant Professor of Railway Engineering, Case School of Applied Science, Cleveland, O. 1910

EDDY, H. T., Dean of the Graduate School and Professor of Mathematics and Mechanics, Emeritus, College of Engineering, University of Minnesota, Minneapolis, Minn. 1893

EDGECOMB, R. E., Assistant Professor of Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1912

EDMANDS, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. 1903

EDMONDSON, T. W., Professor of Mathematics, New York University, New York, N. Y. 1917

EDWARDS, EVAN J., Engineering Department, National Lamp Works, General Electric Co., Nela Park, Cleveland, O. 1911

EDWARDS, WM. M., Professor of Civil and Municipal Engineering, University of Alberta, Edmonton South, Alberta, Canada 1914

EDWARDS, W. W., Head of Dept. of Applied Mechanics, Wentworth Institute, Boston, Mass. 1913

EHLERS, H. E., Assistant Chief, Bureau of Engineering, Public Service Commission, Harrisburg, Pa. 1912

ELLIOTT, B. G., Associate Professor Mechanical Engineering, University of Nebraska, Lincoln, Neb. 1912

ELLIS, C. A., Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1916

ELLIS, FREDERICK, Instructor in Wood Working, Technical High School, Edmonton, Alberta, Canada 1912

ELLIS, W. T., Associate Professor of Machine Design and Applied Mechanics, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1910

ELY, JOHN A., Professor of Surveying and Engineering, St. Johns University, Shanghai, China 1914

EMERSON, WM. H., Dean and Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1912

EMORY, F. L., Professor of Mechanics and Applied Mathematics, West Virginia University, Morgantown, W. Va. 1894

EMRICK, PAUL S., Instructor in Electrical Engineering, Purdue University, LaFayette, Ind. 1914

EMSWILER, J. E., Assistant Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1912

ENDSLEY, L. E., Professor of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907

ENGEL, GODFREY, Engineer of Construction, American Sugar Refining Co. of New York, Brooklyn, N. Y. 1915

ENGER, M. L., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1907

ENNIS, W. D., Professor of Mechanical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1907

ENO, F. H., Professor of Municipal Engineering, The Ohio State University, Columbus, O. 1907

ENSIGN, N. E., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915

ESTY, WILLIAM, Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1898

EVANS, F. H., Dean, College of Industrial Science, Toledo University, Toledo, O. 1907

EVANS, H. B., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. 1908

EVANS, H. S., Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1905

EVANS, J. W., Instructor in Civil Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1916

EVINGER, M. I., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1909

EWING, D. D., Associate Professor of Electrical Railway Engineering, Purdue University, LaFayette, Ind. 1910

EYRE, T. T., Assistant Professor of Mechanical Engineering, Purdue University, LaFayette, Ind. 1909
FAIG, J. T., Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, O. 1899
FARNHAM, C. S., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1908
FARWELL, S. P., Chief, Service Division, State Public Utilities Commission of Illinois, Springfield, Ill. 1911
FAWKES, G. W. H., Instructor in Wood Working, University of Pennsylvania, Philadelphia, Pa. 1912
FELGAR, JAS. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. 1912
FERGUSON, O. J., Professor of Electrical Engineering, Universty of Nebraska, Lincoln, Nebr. 1908
FERMIER, E. J., Professor of Mechanical Engineering, Texas A. and M. College, College Station, Texas 1903
FERNALD, R. H., Whitney Professor of Dynamical Engineering, University of Pennsylvania, Philadelphia, Pa. 1899
FERRIS, C. E., Professor of Mechanical Engineering and Dean of Engineering, University of Tennessee, Knoxville, Tenn. 1913
FESSENDEN, E. A., Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1912
FETTER, FRANK A., Professor of Economics, Princeton University, Princeton, N. J. 1915
FINCH, F. R., Assistant Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1913
FINE, H. B., Professor of Mathematics and Dean of the Departments of Science, Princeton University, Princeton, N. J. 1909
FISH, E. H., New England Associate Editor, *American Machinist*, Worcester, Mass. 1912
FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1905
FISHER, GEO. H., Statistician, International Textbook Company, Scranton, Pa. 1911
FISHER, JAMES, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1899
FISK, IRA W., Associate in Electrical Engineering, University of Illinois, Urbana, Ill. 1914
FISK, WILBUR C., President, Hudson & Manhattan R. R., (Hudson River Tunnels), 30 Church St., New York, N. Y. 1914
FITTERER, J. C., Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. 1912
FITZGERALD, DESMOND, Consulting Engineer, 410 Washington St., Brookline, Mass. 1911

FLATHER, J. J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1893
FLEMING, V. R., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1909
FLETCHER, A. B., Highway Engineer, Dept. of Engineering, State of California, Sacramento, Calif. 1913
FLETCHER, ROBERT, Professor of Civil Engineering, Director of Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1894
FLOWERS, A. E., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1910
FLOYD, E. V., Assistant Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1915
FOCKE, T. M., Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1907
FOGG, R. J., Associate Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa. 1910
FOLK, J. THOMAS, Instructor in Mechanical Engineering Department, Louisiana Industrial Institute, Ruston, La. 1914
FOLWELL, A. P., Managing Editor, *Municipal Journal*, Montclair, N. J. 1916
FOOTE, F. S., JR., Associate Professor of Railroad Engineering, University of California, Berkeley, Calif. 1910
FORAKER, F. A., Assistant Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1914
FORD, ARTHUR H., Professor of Electrical Engineering, State University of Iowa, Iowa City, Ia. 1908
FORD, H. C., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1907
FORMAN, A. H., Professor of Electrical Engineering, West Virginia University, Morgantown, W. Va. 1916
FOSS, F. E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893
FOSS, MARTIN M., Secretary, McGraw-Hill Book Co., 239 W. 39th St., New York, N. Y. 1909
FOSTER, E. S., with the Packard Electric Co., Warren, Ohio 1911
FOULK, C. W., Professor of Analytical Chemistry, The Ohio State University, Columbus, O. 1913
FRANK, E. D. A., Instructor in Mechanical Engineering, University of Illinois, Urbana, Ill. 1917
FRANKFORTER, G. B., Professor of Chemistry and Dean of the School of Chemistry, University of Minnesota, Minneapolis, Minn. 1897
FRANKLIN, WILLIAM S., South Bethlehem, Pa. 1900

FRAZER, JOHN, Dean of the Towne Scientific School and Assistant Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa. 1914

FRAZIER, F. F., Assistant Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

FREAR, J. B., Instructor in Engineering Mechanics and Mathematics, University of Minnesota, Minneapolis, Minn. 1911

FREEDMAN, W. H., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1902

FREEMAN, E. H., Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

FREEMAN, P. J., Engineer of Tests, Pittsburgh Testing Laboratory, Pittsburgh, Pa. 1914

FREEMAN, W. EDWIN, Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

FRENCH, A. W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900

FRENCH, THOS. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1899

FRINK, F. G., Private Practice, Palo Alto, Calif. 1902

FROST, A. E., Registrar, University of Pittsburgh, Pittsburgh, Pa. 1908

FROST, HARWOOD, President, Brown Portable Elevator Co., Room 8410, 10 S. LaSalle St., Chicago, Ill. 1907

FRY, H. P., Assistant Professor of Mechanical Drawing, Mechanical Engineering Department, University of Pennsylvania, Philadelphia, Pa. 1914

FRY, LAWFORD, H., General Inspector, Standard Steel Works Co., Burnham, Pa. 1911

FULLAN, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915

FULLER, A. H., Professor of Civil Engineering and Dean College of Engineering, University of Washington, Seattle, Wash. 1901

FULLER, C. E., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Boston, Mass. 1907

FULTON, WM. L., Assistant Professor of Mathematics and Civil Engineering, University of Vermont, Burlington, Vt. 1912

FURMAN, FRANKLIN DER., Professor of Mechanism and Machine Design, Stevens Institute of Technology, Hoboken, N. J. 1907

GALPIN, S. L., Assistant Professor of Geology and Mining, Iowa State College, Ames, Ia. 1915

GANZ, ALBERT F., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1903

GARMAN, H. O., Chief Engineer of the Indiana Public Utilities Commission, 2062 N. Meridian St., Indianapolis, Ind. 1907

GARRETT, L. E., Associate Professor of Mathematics, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1910

GARVER, J. D., Assistant Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915

GARVER, N. B., Associate in Civil Engineering, University of Illinois, Urbana, Ill. 1910

GATES, A. O., Sales Engineer, Dodge Sales & Engineering Co., 814 Newhouse Bldg., Salt Lake City, Utah 1914

GAY, R. W., Professor of Civil Engineering, Mississippi A. and M. College, Agricultural College, Miss. 1907

GEARHART, W. S., State Engineer and Professor of Highway Engineering, Kansas State Agricultural College, Manhattan, Kans. 1915

GEE, E. C., Professor of Agricultural Engineering, Texas A. & M. College, College Station, Tex. 1914

GEORGE, R. D., Professor of Geology and State Geologist of Colorado, University of Colorado, Boulder, Colo. 1914

GEORGE, S. G., Professor of Mechanics of Engineering, College of Civil Engineering, Cornell University, Ithaca, N. Y. 1914

GIBSON, A. J., Professor of Engineering, University of Queensland, Brisbane, Queensland, Australia 1910

GIBSON, J. L., Dean of School of Arts and Sciences, Professor of Mathematics, University of Utah, Salt Lake City, Utah 1911

GIESECKE, F. E., Professor of Architecture, University of Texas, Austin, Tex. 1893

GILBRETH, F. B., President, F. B. Gilbreth, Inc., 77 Brown St., Providence, R. I. 1911

GILCHRIST, J. F., Vice President, Commonwealth Edison Co., Chicago, Ill. 1911

GILLESPIE, PETER, Associate Professor of Applied Mechanics, University of Toronto, Toronto, Ontario 1905

GILLETTE, H. P., Editor in Chief, *Engineering & Contracting*, 608 S. Dearborn St., Chicago, Ill. 1905

GILMORE, L. H., Professor of Physics, Throop College of Technology, Pasadena, Calif. 1912

GLADSON, W. N., Vice President, Dean, College of Engineering, University of Arkansas, Fayetteville, Ark. 1903

GLASS, R. L., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1915

GODDARD, A. L., Supt. of Shops and Assistant Professor of Mechanical Practice, University of Wisconsin, Madison, Wis. 1912

GODDARD, R. W., Professor of Electrical Engineering, New Mexico College of A. & M. Arts, State College, N. Mex. 1915

GODFREY, HOLLIS, President, Drexel Institute; Chairman, Advisory Commission of the Council of National Defense, Philadelphia, Pa. 1913

GOLDINGHAM, A. H., Sales Engineer, De la Vergne Machine Co., New York, N. Y. 1911

GOLDSMITH, GOLDWIN, Professor of Architecture, University of Kansas, Lawrence, Kans. 1915

GOODENOUGH, G. A., Professor of Thermodynamics, University of Illinois, Urbana, Ill. 1900

GORROW, EDW. M., Field Organizer and Assistant, Extension Division, University of Wisconsin, Appleton, Wis. 1914

GOSS, W. F. M., Dean of the College of Engineering and Director of the Engineering Experiment Station, University of Illinois, Urbana, Ill. 1893

GOULD, F. A., City Engineer, Owosso, Mich. 1916

GOULDING, HERBERT, J., Associate Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1914

GRAHAM, P. H., Professor of Physics and Astronomy, Agnes Scott College, Decatur, Ill. 1916

GRAHAM, WM. P., Professor of Electrical Engineering and Dean of the College of Applied Science, Syracuse University, Syracuse, N. Y. 1912

GRAM, L. M., Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1913

GRANT, E. D., Associate Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1905

GRASTY, J. S., Associate Professor of Geology, University of Virginia, University, Va. 1915

GRAY, ALEXANDER, Professor in charge of Electrical Engineering Department, Cornell University, Ithaca, N. Y. 1915

GREEN, CHAS. W., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. ... 1912

GREEN, R. M., Assistant Professor of Highway Engineering, A. & M. College of Texas, College Station, Tex. 1916

GREENE, A. M., JR., Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1903

GREENOUGH, MAURICE B., Instructor in Civil Engineering, Case School of Applied Science, Cleveland, Ohio 1912

GREGORY, W. B., Professor of Experimental Engineering, Tulane University; Irrigation Engineer, U. S. Department of Agriculture, New Orleans, La. 1907

GREINER, J. E., Consulting Engineer, Fidelity Bldg., Baltimore, Md. 1911
GREMPLE, CHAS. W., Mechanical Engineer, 148 East 34th St., New York, N. Y. 1911
GREVE, F. W., JR., Assistant Professor of Hydraulic Engineering, Purdue University, LaFayette, Ind. 1912
GROAT, B. F., Hydraulic Engineer, 2400 Oliver Bldg., Pittsburgh, Pa. 1899
GRONDAHL, L. O., Assistant Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1915
GROVER, N. C., Chief Hydraulic Engineer, United States Geological Survey, Washington, D. C. 1894
GRUMBEIN, J. B., Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1912
GRUNDHOEFFER, E. F., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1915
GUMMERE, H. V., Director of Evening Courses and Professor of Mathematics, Drexel Institute, Philadelphia, Pa. 1914
GUNTHER, CHAS. O., Professor of Mathematics, Stevens Institute of Technology, Hoboken, N. J. 1907
GWIAZDOWSKI, A. S., Associate Professor of Mechanical Engineering, Toledo University, Toledo, O. 1917
HAGERTY, C. T., Professor of Mathematics and Astronomy, New Mexico College of A. & M. Arts, State College, New Mexico.. 1911
HAIGLER, CHAS. E., Professor of Mathematics, Wentworth Institute, Boston, Mass. 1912
HALE, R. S., Supt., Special Research Dept. Edison Illuminating Company of Boston, Boston, Mass. 1916
HALL, JAMES A., Assistant Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914
HALL, P. R., Instructor in Iron Working, University of Pennsylvania, Philadelphia, Pa. 1912
HALLOCK, J. W., Director, Co-operative Work, University of Pittsburgh, Pittsburgh, Pa. 1915
HALLSTED, J. C., Engineer, Robert W. Hunt Co., Chicago, Ill. 1910
HALSEY, F. A., Editor Emeritus, *American Machinist*, 356 W. 120th St., New York, N. Y. 1907
HALSEY, W. D., Instructor in Mechanical Engineering, George Washington University, Washington, D. C. 1917
HAM, WM. R., Professor of Physics, Pennsylvania State College, State College, Pa. 1914
HAMERSCHLAG, A. A., Director, Carnegie Institute of Technology, Pittsburgh, Pa. 1903
HAMILTON, EDW. P., Secretary, John Wiley & Sons., Inc., 432 Fourth Ave., New York, N. Y. 1914

HAMILTON, GEO. A., 532 Morris Ave., Elizabeth, N. J. 1911
HAMILTON, J. McC., President, Montana State College of A. & M. Arts, Bozeman, Mont. 1912
HAMILTON, J. O., Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1910
HAMLIN, HANNIBAL L., Division Head, Boston Industrial School for Boys, Boston, Mass. 1912
HAMMOND, H. P., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1916
HANCOCK, CHARLES, Professor of Mechanical Engineering, University of Virginia, University, Va. 1915
HANEY, J. W., Instructor in Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1916
HANNA, U. S., Associate Professor of Mathematics, Indiana University, Bloomington, Ind. 1915
HARDING, C. F., Professor of Electrical Engineering and Director of the Electrical Laboratories, Purdue University, LaFayette, Ind. 1908
HARING, ALEXANDER, Professor of Bridge and Railway Engineering, New York University, New York, N. Y. 1907
HARPER, A. C., Instructor in Machine Design, University of Illinois, Urbana, Ill. 1911
HARPER, C. H., Instructor in Drawing and Mathematics, Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa. 1909
HARRINGTON, J. L., Consulting Engineer, Harrington, Howard & Ash, Kansas City, Mo. 1903
HARRIS, C. L., Instructor in Architectural Engineering, The Pennsylvania State College, State College, Pa. 1914
HARRIS, F. C., Instructor in Architecture and Drawing, Kansas State Agricultural College, Manhattan, Kans. 1910
HARRIS, L. H., Professor and Head of the Department of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1912
HARRIS, WALTER B., Professor of Geodesy, Princeton University, Princeton, N. J. 1914
HARTER, G. A., Professor of Mathematics and Physics, Delaware College, Newark, Del. 1905
HARTMANN, F. M., Professor of Electrical and Mechanical Engineering, Cooper Union, New York, N. Y. 1908
HARVEY, J. W., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1916
HASEMAN, CHARLES, Professor of Mathematics and Mechanics, University of Nevada, Reno, Nev. 1914
HASKELL, E. E., Dean of the College of Civil Engineering, Cornell University, Ithaca, N. Y. 1907

HASKELL, F. E., Assistant Examiner, U. S. Patent Office, Washington, D. C. 1914

HASKELL, M. W., Professor of Mathematics, University of California, Berkeley, Cal. 1910

HASTINGS, H. B., Professor of Applied Economics, Reed College, Portland, Ore. 1908

HATJIDAKIS, GEORGE, Piraeus, Greece 1913

HATT, W. K., Professor of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, LaFayette, Ind. 1895

HAULTAIN, H. E. T., Professor of Mining Engineering, University of Toronto, Toronto, Canada 1911

HAUSMANN, ERICH, Associate Professor of Physics and Electrical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

HAVENS, WM. W., Civil Engineer, 2453 Valentine Ave., New York, N. Y. 1914

HAVILAND, EDWIN, With the Seattle Lighting Co., Seattle, Wash.. 1902

HAWES, J. H., Junior Master, Dorchester High School, Dorchester Center, Mass. 1900

HAWLEY, J. B., Consulting Engineer, F. and M. Bank Bldg., Ft. Worth, Tex. 1911

HAWLEY, R. S., Professor and Head of Mechanical Engineering, Colorado School of Mines, Golden, Colo. 1915

HAY, E. D., Professor of Drawing and Machine Design, Oshkosh Normal School, Oshkosh, Wis. 1915

HAYES, THORNTON, Instructor in Machine Tool Work; Foreman, Machine Shop, Kansas State Agricultural College, Manhattan, Kans. 1915

HAYFORD, J. F., Director of the College of Engineering, Northwestern University, Evanston, Ill. 1905

HAZELTINE, L. A., Assistant Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1910

HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1907

HEDRICK, E. R., Professor of Mathematics, University of Missouri, Columbia, Mo. 1910

HEDRICK, I. G., Senior Member of Hedrick & Hedrick, Consulting Engineers, 506 Inter State Bldg., Kansas City, Mo. 1903

HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1913

HELMAN, M. P., Instructor in Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1914

HENDERER, W. O., President, The Osborn Engineering Co., 740 Engineers Bldg., Cleveland, O. 1910

HENDRY, W. S., Instructor in Mechanic Arts, University of Arizona, Tucson, Ariz. 1915

HENLEY, W. W., Professor of Mechanic Arts, University of Arizona, Tucson, Ariz. 1907

HENSHALL, P. P., Instructor in Machine Shop, Pennsylvania State College, State College, Pa. 1915

HERGET, A. M., Professor of Drawing and Mechanic Arts, Louisiana State University, Baton Rouge, La. 1903

HERING, RUDOLPH, Hydraulic and Sanitary Consulting Engineer, 170 Broadway, New York, N. Y. 1911

HERSCHEL, W. H., Assistant Physicist, Bureau of Standards, Washington, D. C. 1911

HERTY, C. H., Editor, *Journal of Industries and Engineering Chemistry*, 35 East 41st St., New York, N. Y. 1912

HESSE, G. ERNEST, Text Book Publisher, 609 Van Cortlandt Park Ave., Yonkers, N. Y. 1914

HEUTER, R. R., Inspector, Associated Factory Mutual Fire Insurance Cos., 31 Milk St., Room 510, Boston, Mass. 1912

HEWERDINE, T. S., Civil Engineer, Olivia, Minn. 1907

HEWITT, C. E., Dean of Engineering, New Hampshire College of A. & M. Arts, Durham, N. H. 1915

HIBBARD, H. WADE, Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1896

HICKERSON, T. F., Associate Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914

HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. 1906

HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1908

HIGGINS, CHAS. H., Consulting Engineer; Secretary Princeton Engineering Association, 30 Church St., New York, N. Y. 1912

HILL, ARTHUR E., Professor of Chemistry, New York University, New York, N. Y. 1912

HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894

HILL, WM. W., Professor of Electrical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1912

HILLEBRAND, W. A., 345 Kellog Ave., Palo Alto, Calif. 1910

HILLEGASS, H. H., Assistant Professor of Electrical Engineering, University of Maine, Orono, Me. 1916

HIROI, ISAMI, Professor of Civil Engineering, Tokyo Imperial University, College of Engineering, Tokyo, Japan..... 1910
HITCHCOCK, F. A., Professor of Civil Engineering, New Mexico State College of A. & M., State College, N. Mex. 1913
HITCHCOCK, GEO. G., Professor of Physics, Pomona College, Claremont, Calif. 1911
HITCHCOCK, G. P., Vice-Chairman of Faculty and Assistant to the Secretary, Pratt Institute, Brooklyn, N. Y..... 1914
HITCHCOCK, W. A., Assistant Professor of Civil Engineering, University of Wyoming, Laramie, Wyo. 1915
HIXON, C. R., Assistant Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910
HOAD, W. C., Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. 1907
HOBART, H. M., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1912
HODGKINS, H. L., Dean of the College of Engineering and Professor of Mathematics, George Washington University, Washington, D. C. 1908
HODSON, L. C., Associate Professor of Mining Engineering, Iowa State College, Ames, Ia. 1915
HOEFER, E. G., Professor of Mechanical Engineering, University of Wyoming, Laramie, Wyo. 1910
HOERNING, CARLOS, Professor of Mechanical Engineering, Universidad de Chile, Santiago, Chile. 1912
HOEXTER, S. J., with Esselstyn-Murphy Co., Engineers, 206 Telegraph Bldg. Detroit, Mich. 1914
HOFMAN, G. A., Professor of Mechanical Engineering, St. Mary College, Dayton, O. 1916
HOFMAN, H. O., Professor of Metallurgy, Massachusetts Institute of Technology, Boston, Mass. 1894
HOFFMAN, A. H., Associate Professor of Physics, Iowa State College, Ames, Ia. 1907
HOFFMAN, J. D., Professor of Mechanical Engineering and Practical Mechanics, and Head of Department, University of Nebraska, Lincoln, Nebr. 1907
HOGG, WM. T., Instructor in Civil Engineering, The Tulane University, New Orleans, La. 1914
HOLBROOK, E. A., Assistant Professor of Mining Engineering, University of Illinois, Urbana, Ill..... 1912
HOLDEN, C. A., Professor of Civil Engineering, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H..... 1901

HOLDER, F. J., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1912
HOLLIS, I. N., President, Worcester Polytechnic Institute, Worcester, Mass. 1894
HOLLISTER, S. C., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1916
HOLLISTER, V. L., Associate Professor of Electrical Engineering, University of Nebraska, Lincoln, Nebr. 1911
HOLMAN, W. F., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1912
HOOD, GEO. J., Associate Professor of Mechanical Drawing, University of Kansas, Lawrence, Kans. 1914
HOOD, O. P., Chief Mechanical Engineer, U. S. Bureau of Mines, 40th & Butler Sts., Pittsburgh, Pa. 1893
HOOPER, E. G., Assistant Engineer, Dept. Water Supply, Gas and Electricity, 417 East 236th St., New York, N. Y. 1909
HOOPER, W. L., Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1907
HOSKINS, L. M., Professor of Applied Mathematics, 365 Lincoln Ave., Palo Alto, Calif. 1893
HOSMER, GEO. L., Associate Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1914
HOTCHKISS, HOMER J., Instructor in Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1914
HOUGHTON, C. E., Professor of Mechanics, New York University, New York, N. Y. 1908
HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo. 1913
HOUSTON, HALE, Professor of Civil Engineering, Clemson A. & M. College, Clemson College, S. C. 1914
HOWARD, J. W., Assistant Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907
HOWE, C. D., Chief Engineer, Grain Commission for Canada, Fort William, Ontario, Canada 1912
HOWE, C. S., President of the Case School of Applied Science, Cleveland, O. 1902
HOWER, H. S., Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914
HOXTON, L. G., Professor of Physics, University of Virginia, University, Va. 1915
HUBBARD, A. K., 2 Highland Park, Batavia, N. Y. 1907
HUDSON, C. W., Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1909

HUGHES, H. J., Professor of Civil Engineering, Harvard University, and the Massachusetts Institute of Technology, Cambridge, Mass. 1907

HUME, ALFRED, Vice-Chancellor and Professor of Mathematics, University of Mississippi, University, Miss. 1894

HUMPHREYS, A. C., President, Stevens Institute of Technology, Hoboken, N. J. 1903

HUMPHREYS, D. C., Dean of the School of Applied Science and Professor of Civil Engineering, Washington and Lee University, Lexington, Va. 1893

HUND, AUGUST, Assistant Professor of Physics and Electrical Engineering, University of Southern California, Los Angeles, Cal. 1914

HUNT, CHAS. WARREN, Secretary, the American Society of Civil Engineers, 220 W. 57th St., New York, N. Y. 1911

HUNT, ROBERT W., Senior Member of Robert Hunt & Co., Chicago, Ill. 1913

HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1904

HUNTINGTON, E. V., Associate Professor of Mathematics, Harvard University, Cambridge, Mass. 1906

HUNTINGTON, W. C., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914

HUTCHINS, H. B., President, University of Michigan, Ann Arbor, Mich. 1913

HUTCHINS, R. E., Assistant Professor of Mechanics, State University of Iowa, Iowa City, Ia. 1912

HYDE, A. L., Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904

HYDE, E. P., Director, Nela Research Laboratory, National Lamp Works of General Electric Co., Nela Park, Cleveland, O. 1911

INGRAM, E. L., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. 1908

IVES, F. W., Assistant Professor of Agricultural Engineering, The Ohio State University, Columbus, O. 1910

IVES, H. C., Professor of Railroad Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1901

IYER, R. P., Supervisor, Public Works Department, Teruverambur P. O., Trechwofoltz District, Deccan, India 1910

JABLOW, CHARLES, Associate Professor of Mechanical Engineering, Oklahoma A. & M. College, Stillwater, Okla. 1910

JACKSON, DUGALD C., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. 1893

JACKSON, JOHN PRICE, Commissioner, Dept. of Labor and Industry, Commonwealth of Pennsylvania, Harrisburg, Pa. 1894

JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., and Special Lecturer in Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J. 1893

JACOBY, H. S., Professor of Bridge Engineering, Cornell University, Ithaca, N. Y. 1894

JAMES, J. H., Professor of Chemical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

JAMES, R. L., Assistant Professor of Engineering Drawing, University of North Carolina, Chapel Hill, N. C. 1914

JAMESON, J. M., Vice President, Girard College, Philadelphia, Pa. 1903

JENKINS, D. R., Assistant Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1912

JENSON, JOSEPH, Consulting Engineer, 208 Judge Bldg., Salt Lake City, Utah 1903

JEWETT, A. C., 410 Whalley Ave., New Haven, Conn. 1907

JEWETT, F. B., Chief Engineer, Western Electric Co., 463 West St., New York, N. Y. 1914

JOBSON, A. J., General Superintendent, Wyoming Electric Co., Casper, Wyo. 1910

JOHNSON, A. R., Assistant Professor of Mathematics and Graphics, Rutgers College, New Brunswick, N. J. 1909

JOHNSON, C. A., Associate Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1915

JOHNSON, E. A., Head of the Foundry Dept., Wentworth Institute, Boston, Mass. 1913

JOHNSON, F. ELLIS, Assistant Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1916

JOHNSON, L. J., Professor of Civil Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1898

JOHNSON, PHELPS, President, Dominion Bridge Co.; President, St. Lawrence Bridge Co., Montreal, Canada..... 1910

JOHNSON, WM. F., Philadelphia Electric Co., Philadelphia, Pa. ... 1913

JOHNSTON, C. T., Professor of Geodesy and Surveying, University of Michigan, Ann Arbor, Mich. 1913

JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907

JONES, BASSETT, JR., Consulting Engineer, 101 Park Ave., New York, N. Y. 1907

JONES, C. R., Dean of the College of Engineering and Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1895

JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915

JONES, F. R., Mechanical and Electrical Engineer, 1702 Melrose Place, Knoxville, Tenn. 1893
JONES, G. R., Associate Professor of Civil Engineering, The Johns Hopkins University, Baltimore, Md. 1914
JONES, J. O., Assistant Professor of Hydraulics, University of Kansas, Lawrence, Kans. 1916
JORDAN, H. H., Associate in General Engineering Drawing, University of Illinois, Urbana, Ill. 1915
JUDD, HORACE, Associate Professor of Experimental Engineering, Ohio State University, Columbus, O. 1907
KARAPETOFF, VLADIMIR, Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1909
KAULFUSS, J. E., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1910
KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. 1902
KAY, EDGAR B., Consulting Engineer, Tuscaloosa, Ala. 1898
KEELY, R. R., Consulting Engineer, 10 Palmer Ave., Plainfield, N. J. 1910
KEGERREIS, ROY, Graduate Student, Columbia University, New York, N. Y. 1913
KELLER, A. R., 2206 McKinley Str., Honolulu, T. H. 1910
KELLER, J. O., Instructor in Industrial Engineering, The Pennsylvania State College, State College, Pa. 1916
KELLER, R. B., Associate Professor of Railway Engineering, University of Illinois, Urbana, Ill. 1913
KELLER, S. S., Professor of Mathematics, Head of Mathematics Dept., Carnegie Institute of Technology, Pittsburgh, Pa. 1912
KELLEY, HOWARD G., Vice-President, Grand Trunk Railway System, Montreal, P. Q., Canada 1910
KELLOGG, E. W., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1913
KELSALL, G. A., Instructor in Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. 1911
KENERSON, W. H., Professor of Mechanical Engineering, Brown University, Providence, R. I. 1903
KENISON, ERVIN, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1912
KENNEDY, F. L., Associate Professor of Engineering Drawing, Harvard University, Cambridge, Mass. 1904
KENNELLY, A. E., Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916

KENT, H. L., Principal, School of Agriculture, and Associate Professor of Education, Kansas State Agricultural College, Manhattan, Kans. 1915

KENT, J. M., Instructor in Steam and Electricity, Manual Training High School; President of the Henrici, Kent & Lowry Engineering Co., Kansas City, Mo. 1903

KENT, WILLIAM, Consulting Engineer, 64 Orange Road, Montclair, N. J. 1894

KEOWN, R. McA., Assistant Professor of Machine Design, University of Wisconsin, Madison, Wis. 1910

KERR, E. W., Professor of Mechanical Engineering, Louisiana State University, Baton Rouge, La. 1910

KERSHAW, W. H., Manager, Eastern Division, John Baker Jr. Co., New York, N. Y. 1913

KETCHUM, MILO S., Dean of the College of Engineering and Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1903

KIDD, J. W., Professor of Engineering, Texas State School of Mines and Metallurgy, Fort Bliss, Tex. 1908

KIMBALL, D. S., Professor of Machine Design and Industrial Engineering, Cornell University, Ithaca, N. Y. 1915

KING, CARL, Instructor in Materials of Construction, Wentworth Institute, Boston, Mass. 1912

KING, E. E., Professor of Railway Engineering, Iowa State College, Ames, Ia. 1908

KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913

KING, R. S., Mechanical Engineering Department, University of Arizona, Tucson, Ariz. 1904

KINGSBURY, ALBERT, Consulting Engineer, 219 Stratford Ave., Pittsburgh, Pa. 1893

KINSEY, A. S., Supervising Instructor in Shop Practice, Stevens Institute of Technology, Hoboken, N. J. 1912

KINSLEY, CARL, Associate Professor of Physics, University of Chicago, Chicago, Ill. 1903

KIRBY, R. S., Assistant Professor of Drawing and Descriptive Geometry, Sheffield Scientific School, Yale University, New Haven, Conn. 1911

KIRCHNER, W. H., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910

KIRKHAM, J. E., Professor of Structural Engineering, Iowa State College, Ames, Ia. 1915

KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, South Bethlehem, Pa. 1908

KNAPP, E. R., Professor of Descriptive Geometry and Mechanical Drawing, Stevens Institute of Technology, Hoboken, N. J..... 1912

KNAPP, W. A., Assistant Professor of Structural Engineering, Purdue University, LaFayette, Ind. 1914

KNEALE, R. D., Professor of Highway Engineering, Georgia School of Technology, Atlanta, Ga. 1912

KNIGHT, C. D., Assistant Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907

KNIGHT, W. A., Associate Professor of Machine Shop Practice, Ohio State University, Columbus, O. 1907

KNOCH, JULIUS J., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1898

KNOWLTON, A. A., Associate Professor of Physics, University of Utah, Salt Lake City, Utah 1911

KNOWLES, MORRIS, Director, Department of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915

KOESTER, FRANK, Consulting Engineer, 50 Church St., Hudson Terminal Bldg., New York, N. Y. 1910

KONDO, SENTARO, Civil Engineer, No. 27 Tatsuokacho Hongo, Tokyo, Japan 1911

KONDO, TORAGORO, Chief of Technical Division, Public Works Bureau, Home Department, Tokyo, Japan (Life Member) .. 1911

KREWSON, R. H., Instructor in Iron Working, University of Pennsylvania, Philadelphia, Pa. 1912

KROTZER, FRED. W., Instructor in Electricity, Central Continuation School, Y. M. C. A., Milwaukee, Wis. 1915

KUNZE, E. J., Professor of Mechanical Engineering, in charge of Department, Oklahoma A. & M. College, Stillwater, Okla. 1907

LAGERGREN, J. T., Lecturer in Machine Design, University of Toronto, Toronto, Ont., Canada. 1912

LAMBERT, B. J., Professor of Structural Engineering, State University of Iowa, Iowa City, Ia. 1907

LAMBERT, P. A., Professor of Mathematics, Lehigh University, South Bethlehem, Pa. 1897

LAMBIE, J. S., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

LANDRETH, O. H., Professor of Civil Engineering, Union University, Schenectady, N. Y. 1893

LANGILLE, H. B., Assistant Professor of Machine Design and Mechanical Drawing, University of California, Berkeley, Cal. 1915

1912 LANGSDORF, A. S., Dean of the Schools of Engineering and Architecture and Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1903

1914 LANIER, A. C., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

1912 LAPHAM, J. R., Instructor in Civil Engineering, Pennsylvania State College, State College, Pa. 1912

1907 LAPHAM, J. S., Adjunct Professor of Experimental Engineering, University of Virginia, University, Va. 1915

1907 LARSON, G. L., Associate Professor of Steam and Gas Engineering, 27 Lathrop St., Madison, Wis. 1911

1898 LAUER, H. H., Construction Engineer, Atlas Portland Cement Co., Northampton. Pa. 1913

1911 LAWRANCE, C. H., Instructor in Mechanics, Purdue University, La-Fayette, Ind. 1906

1914 LAWRENCE, C. W., Professor of Civil Engineering, University of Southern California, Los Angeles, Cal. 1909

1915 LAWRENCE, J. W., Professor of Mechanical Engineering, State Agricultural College of Colorado, Fort Collins, Colo. 1898

1910 LAWRENCE, R. R., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907

1911 LAWS, F. A., Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. 1909

1911 LAWTON, E. E., Associate Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1910

1912 LECONTE, J. N., Professor of Engineering Mechanics, University of California, Berkeley, Calif. 1913

1915 LEETE, J. H., Dean, School of Applied Science, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

1907 LEKBERG, C. H., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1912

1912 LELAND, O. M., Assistant Professor of Astronomy and Geodesy and Head of Dept. of Topographic and Geodetic Engineering, Cornell University, Ithaca, N. Y. 1908

1907 LENDALL, H. N., Assistant Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1912

1897 LEONARD, L. R., Instructor in Electrical Engineering, University of Colorado, Boulder, Colo. 1914

1914 LEPAGE, CLIFFORD B., Assistant Professor of Physics, Stevens Institute of Technology, Hoboken, N. J. 1908

1893 LESTER, O. C., Professor of Physics, University of Colorado, Boulder, Colo. 1912

1915 LETELLIER, L. S., Professor of Drawing, The Citadel, The Military College of South Carolina, Charleston, S. C. 1912

LEUTWILER, O. A., Professor of Machine Design, University of Illinois, Urbana, Ill. 1906
LEWIS, F. J., Instructor in Civil Engineering, The Rice Institute, Houston, Tex. 1916
LEWIS, BROTHER HUBERT, Associate Professor of Engineering, Christian Brothers College, St. Louis, Mo. 1911
LEWIS, J. F., Electrical and Railway Engineer, 503 Brinton St., Germantown, Philadelphia, Pa. (Life Member) 1913
LEWIS, O. L., Tool Designer, Lyons-Atlas Co., Indianapolis, Ind. 1913
LIEB, J. W., Vice-President, The New York Edison Co., 124 E. 15th St, New York, N. Y. 1911
LILLY, S. B., Assistant Professor of Civil Engineering, Swarthmore College, Swarthmore, Pa. 1913
LINCOLN, P. M., Director of the Dept. Electrical Engineering, University of Pittsburgh; Commercial Engineer, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1911
LINDEMANN, C. A., Professor of Applied Mathematics, Bucknell University, Lewisburg, Pa. 1905
LINVILLE, C. P., Metallurgical Engineer American Smelting & Refining Co., Perth Amboy, N. J. 1904
LITTLE, C. N., Dean of the College of Engineering and Professor of Civil Engineering, University of Idaho, Moscow, Idaho.... 1907
LITTLE, G. T., Instructor, Related Work, New Bedford Industrial School, New Bedford, Mass. 1916
LOCKWOOD, E. H., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908
LODGE, W. L., Associate Professor of Physics, Michigan Agricultural College, East Lansing, Mich. 1908
LOGAN, D. M., Assistant in Mechanical Drawing, University of Oklahoma, Norman, Okla. 1916
LONG, J. J., Assistant Professor of Civil Engineering, University of Cincinnati, Cincinnati, O. 1911
LONGYEAR, J. M., ex-Member Board of Control, Michigan College of Mines, Marquette, Mich. 1905
LORING, F. C., Instructor in Electrical Engineering, Ford Co., Champaign, Ill. 1912
LORY, C. A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOVE, A. C., Professor of Railway Engineering, Texas A. & M. College, College Station, Texas 1900
LUBY, WM. A., Head of Dept. of Mathematics, Kansas City Polytechnic Institute, Kansas City, Mo. 1914
LUCKE, C. E., Professor of Mechanical Engineering and Head of Dept., Columbia University, New York, N. Y. 1906

LUDERITZ, JOAO, Engenheiro Chefo-Instituto Technico Professional, Porto Alegre, Brazil 1909

LUDY, L. V., Professor of Experimental Engineering, Purdue University, LaFayette, Ind. 1903

LUND, JACOB, Supt. Heat and Power Dept., Kansas State Agricultural College, Manhattan, Kans. 1910

LUNDGREN, LEONARD, District Engineer, U. S. Forest Service, Beck Bldg., Portland, Ore. 1907

LUTHER, H. B., Instructor in Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1914

LYLE, WM. T., Professor of Municipal Engineering, Lafayette College, Easton, Pa. 1914

LYMAN, RICHARD R., Professor of Civil Engineering, University of Utah; Vice-Chairman, Utah State Road Commission, Salt Lake City, Utah 1908

LYNCH, D. E., Instructor in Forging, Foreman, Blacksmith Shop, Kansas State Agricultural Engineering, Manhattan, Kans. 1915

LYON, W. V., Assistant Professor Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1912

MCALISTER, E. H., Professor of Mechanics, University of Oregon, Eugene, Ore. 1911

MCALLISTER, A. S., Electrical Engineer, Engineers' Club, New York, N. Y. 1911

MCCAFFERY, R. S., Professor of Metallurgy, University of Wisconsin, Madison, Wis. 1911

MCCANDLISS, E. S., Assistant Professor of Civil Engineering, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1915

MCCANDLISS, L. C., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

MCCANN, WM. R., Valuation Engineer, Public Utilities, Capitol Bldg., Springfield, Ill. 1912

MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. 1902

MCCLELLAND, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912

MCCLELLAND, J. F., Professor of Mining Engineering, Yale University, New Haven, Conn. 1912

MCCLINTIC, H. H., Vice-President and General Manager, McClintic-Marshall Construction Co., Pittsburgh, Pa. 1910

MCCOMB, DANA, Q., Testing and Inspecting Engineer, 215 Clark Bldg., Birmingham, Ala. 1917

McCormick, E. B., Mechanical Engineer, Office of Public Roads and Rural Engineering, U. S. Dept. of Agriculture, Washington, D. C. 1908

McCormick, S. B., Chancellor, University of Pittsburgh, Pittsburgh, Pa. 1914

McCullough, F. M., Assistant Professor of Materials, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

McDaniel, A. B., Assistant Professor of Civil Engineering, Union College, Schenectady, N. Y. 1907

McEachnon, K. B., Professor of Electrical Engineering, Ohio Northern University, Ada, O. 1916

McFarland, David F., Associate Professor of Applied Chemistry, College of Literature, Arts and Science, University of Illinois, Urbana, Ill. 1914

McGowan, John, Associate Professor of Applied Mechanics, University of Toronto, Toronto, Ont., Canada 1914

McGrath, E. L., Instructor in Engineering Mathematics, University of Colorado, Boulder, Colo. 1916

McKergow, C. M., Associate Professor of Mechanical Engineering, McGill University, Montreal, Canada. 1913

McKibben, F. P., Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa. 1904

McLeod, D. F., Assistant Professor of Civil Engineering, University of Mississippi, University, Miss. 1915

McMeen, S. G., President, Columbus Railway, Power & Light Co., etc., 1001 Wyandotte Bldg., Columbus, O. 1911

McMillin, Emerson, Chairman, Board of Directors, American Light & Traction Co., and President of many Companies, Ramsey, N. J. (Life Member) 1911

McMurtray, H. D., Assistant Professor of Physics, Mississippi A. &. M. College, Agricultural College, Miss. 1914

McNair, F. W., President, Michigan College of Mines, Houghton, Mich. 1897

McNair, G. B., Assistant Professor of Electrical Engineering, Kansas State Agricultural College Manhattan, Kans. 1914

McNaugher, D. W., Partner, Robert W. Hunt & Co., Engineers, Pittsburgh, Pa. 1910

McNown, W. C., Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915

McRae, A. L., Director and Professor of Physics, Missouri School of Mines, Rolla, Mo. 1907

Macarthur, J. R., Professor of English, Kansas State Agricultural College, Manhattan, Kans. 1915

MacCracken, J. H., President, Lafayette College, Easton, Pa.... 1913
Macdonald, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo..... 1914
Mack, J. G. D., Professor of Machine Design, University of Wisconsin, Madison, Wis. 1901
MacKavanaugh, T. J., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1916
MacKay, H. M., Professor of Civil Engineering, McGill University, Montreal, Quebec, Canada 1914
Mackenzie, C. J., Professor of Civil Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915
Maclaurin, R. C., President, Massachusetts Institute of Technology, Cambridge, Mass. 1909
MacNaughton, Edgar, Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1916
MacNaughton, Jas., General Manager, Calumet and Hecla Mines; Member Board of Control, Michigan College of Mines, Calumet, Mich. 1905
MacNutt, Barry, Professor of Physics, Lehigh University, South Bethlehem, Pa. 1910
Macomber, G. S., Senior Telegraph and Telephone Engineer, Interstate Commerce Commission, Washington, D. C. 1904
Magnusson, C. E., Professor of Electrical Engineering, University of Washington, Seattle, Wash..... 1907
Magruder, Wm. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. 1893
Main, C. T., Consulting and Constructing Engineer, 14 Herrick St., Winchester, Mass. 1911
Mallory, Francis, Professor of Physics and Electrical Engineering, Virginia Military Institute, Lexington, Va. 1912
Mallory, W. F., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1915
Mann, C. V., Instructor in Engineering Mathematics, University of Colorado, Boulder, Colo. 1916
Mann, C. R., The Carnegie Foundation for the Advancement of Teaching, 576 Fifth Ave., New York, N. Y. 1914
Marburg, Edgar, Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1894
Mark, Robert M., Civil Engineer, Highways, Spencerport, Monroe Co., N. Y. 1909
Marker, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, Columbus, O. 1913

MARKS, L. S., Professor of Mechanical Engineering, Harvard University, and Massachusetts Institute of Technology, Cambridge, Mass. 1909

MARQUIS, F. W., Professor of Steam Engineering, Ohio State University, Columbus, Ohio 1910

MARR, ROBT. A., Dean of the Engineering Department, Virginia Polytechnic Institute, Blacksburg, Va. 1912

MARSHALL, W. C., Mechanical Engineer, The Remington Arms & Ammunition Co., Bridgeport, Conn. 1912

MARSTON, ANSON, Dean of the Division of Engineering and Director of the Engineering Experiment Station, and Professor of Civil Engineering, Iowa State College, Ames, Ia. 1894

MARTEL, R. R., Assistant Engineer, Sayles Finishing Plants, Saylesville, R. I. 1915

MARTENIS, J. VAN S., Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1908

MARTIN, L. A., JR., Dean and Professor of Mechanics, Stevens Institute of Technology, Hoboken, N. J. 1907

MARTIN, T. C., Secretary, The National Electric Light Association, 29 West 39th St., New York, N. Y. 1909

MARTIN, W. H., Instructor in Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1913

MARVIN, HENRY H., Assistant Professor of Physics, Tufts College, Tufts College, Mass. 1914

MARX, C. D., Professor of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. 1893

MASON, A. J., Engineer, Chicago Railway Exchange, 5715 Woodlawn Ave., Chicago, Ill. 1912

MATHESON, K. G., President, Georgia School of Technology, Atlanta, Ga. 1916

MATHEWS, H. B., Professor of Physics, South Dakota State College of A. and M. Arts, Brookings, S. D. 1896

MATHEWSON, F. E., Director, Technical and Industrial Dept., Wm. L. Dickinson High School, Jersey City, N. J. 1913

MATHEWSON, JAS. S., Instructor in Engineering, Municipal University of Akron, Akron, O. 1914

MATTHEWS, ROBERTSON, Assistant Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

MAURER, E. R., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1897

MAY, CHAS. C., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1912

MEAD, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908

MEASE, J. A., Associate Professor of Machine Design, Pennsylvania State College, State College, Pa. 1909

MEEKER, W. H., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1903

MEES, C. L., President, Rose Polytechnic Institute, Terre Haute, Ind. 1894

MÉHELY, KÁLMÁN, Director of the Society of Hungarian Ironworks and Machinery Factories, Budapest, Hungary..... 1909

MEIKLEJOHN, ROBERT, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, O..... 1909

MELLER, H. B., Dean, School of Mines, Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1915

MENDENHALL, T. C., 329 N. Chestnut St., Ravenna, O. (Honorary Member) 1895

MERRILL, J. F., Director of the Utah State School of Mines; Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah 1907

MERRILL, J. L., Instructor in Mechanical Drawing, University of Colorado, Boulder, Colo. 1915

MERRIMAN, MANSFIELD, 1071 Madison Ave., New York, N. Y..... 1893

MEYER, ADOLPH F., Associate Professor of Hydraulic Engineering, University of Minnesota, Minneapolis, Minn. 1913

MICKEY, CLARK E., Assistant Professor of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1912

MILLAR, A. V., Assistant Professor of Drawing, University of Wisconsin, Madison, Wis. 1914

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. 1907

MILLER, HUGH, Lecturer in Civil Engineering, Rice Institute, Houston, Tex. 1909

MILLER, H. W., Assistant Dean, College of Engineering, and Assistant Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912

MILLER, N. C., Instructor in Mechanical Engineering, and Engineering Extension, The Pennsylvania State College, State College, Pa. 1914

MILLER, W. A., Associate Professor of Railway Engineering, University of Missouri, Columbia, Mo. 1908

MISER, W. L., Assistant Professor of Mathematics, University of Arkansas, Fayetteville, Ark. 1914

MITCHAM, G. N., Professor of Civil Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1906

MITCHELL, BRAINERD, JR., Associate Professor of Mechanical Engineering, University of Arkansas, Fayetteville, Ark. 1910

MITCHELL, LOUIS, Associate Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913
MODJESKI, RALPH, Consulting Engineer, 101 Park Ave., New York, N. Y. 1908
MOLBY, F. A., Assistant Professor of Physics, Indiana University, Bloomington, Ind. 1910
MONROE, W. K., Manager, Engineering Dept., The Brown Hoisting Machinery Co., Cleveland, O. 1911
MOODY, L. F., Consulting Engineer, I. P. Morris Co., Philadelphia, Pa. 1912
MOOMAW, DALTON, Road Engineer, Cuyahoga Co., 1315 Lakeview Road, N. E., Cleveland, O. 1911
MOORE, F. C., Associate Professor of Mathematics, New Hampshire College of A. & M. Arts, Durham, N. H. 1915
MOORE, G. R., Civil Engineer, Manasquan, N. J. 1913
MOORE, H. F., Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905
MOORE, S. H., Director of Mechanic Arts, McKinley High School, St. Louis, Mo. 1902
MORE, CHAS. C., Professor of Civil Engineering, University of Washington, Seattle, Wash. 1901
MORECROFT, J. H., Associate Professor of Electrical Engineering, Columbia University, New York, N. Y. 1908
MORRILL, J. B., Manager, Reed Reduction Co., Palo Alto, Calif. .. 1914
MORRIS, C. C., Professor of Mathematics, and Assistant to the Dean, College of Engineering, The Ohio State University, Columbus, O. 1915
MORRIS, C. T., Professor of Structural Engineering, Ohio State University, Columbus, O. 1907
MORRIS, J. J., Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1912
MORRISON, I. F., Lecturer in Structural Engineering, University of Alberta, Edmonton South, Alta., Canada 1912
MORRISON, ROGER L., Professor of Highway Engineering, Texas A. & M. College, College Station, Tex. 1914
MORSE, G. H., Consulting Engineer, Mutual Electric & Machine Co., Wheeling, W. Va. 1907
MORSE, J. L., Instructor in Mechanical Engineering, Michigan Agricultural College, East Lansing, Mich. 1910
MORSS, EVERETT, 115 Commonwealth Ave., Boston, Mass. 1910
MOSELEY, A. W., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1907

MOSS, S. A., Engineer, Turbine Research Dept., General Electric Co., Lynn, Mass. 1911

MOTT, W. E., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

MOUNCE, J. L., Instructor in Wood Working, University of Pennsylvania, Philadelphia, Pa. 1912

MOYER, J. A., Director of the Dept. of University Extension, Massachusetts Board of Education, Boston Mass. 1904

MOYLE, M. W., Instructor in Mechanical Engineering, University of Colorado, Boulder, Colo. 1915

MUHLFELD, J. E., Vice-President and General Manager, Kansas City Southern Railway, Kansas City, Mo. 1911

MUNN, D. W., Assistant Engineer, Steel Company of Canada, Montreal, Canada 1915

MUNRO, A. R., Senior Demonstrator in Engineering, University of Queensland, Brisbane, Australia 1913

MUNRO, G. W., Assistant Professor of Mechanical Engineering, Purdue University, LaFayette, Ind. 1915

MUNRO, M. S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914

MUNROE, G. E., Construction Department, General Electric Co., Schenectady, N. Y. 1907

MUNROE, H. S., Emeritus Professor of Mining, Columbia University, Litchfield, Conn. 1893

MURDOCK, H. E., Agricultural Engineer, Head of Agricultural Engineering Department, University of Montana, Bozeman, Mont. 1910

MURPHY, J. F., Instructor in Foundry Work, University of Pennsylvania, Philadelphia, Pa. 1912

MURPHY, R. K., % P. R. Cole, Sydney Teachers College, Sydney, Australia 1914

MURRAY, D. A., Professor of Applied Mathematics, McGill University, Montreal, Canada 1910

MURRIE, J. L., Supervisor, Cadet Engineer Corps, The New York Edison Co., New York, N. Y. .....

MYERS, CURTIS C., Professor of Industrial Engineering, University of Cincinnati, Cincinnati, O. 1914

NAGLE, J. C., Chairman, Board of Water Engineers, Capitol Station, Austin, Texas 1897

NAIDU, A. S., Assistant Engineer, Vizianagram City, Vizagapatam District, Madras, India 1913

NAIDU, K. S., Manager, Samasthanam Engineer's Office, Vizianagram City, Madras, South India 1914

NASH, C. A., Instructor in Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913

NEEL, WM. T., Assistant to Supt. of Installation Dept., Philadelphia Electric Co., Philadelphia, Pa. 1914

NEFF, F. H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895

NELSON, J. H., Professor of Applied Mechanics, Worcester Polytechnic Institute, Worcester, Mass. 1910

NELSON, J. R., Assistant Professor of English in the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1914

NESBIT, A. F., Consulting Engineer; Special Lecturer in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1902

NEWCOMBE, J. L., Professor of Civil Engineering, University of Virginia, University, Va. 1915

NEWELL, F. H., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1915

NEWHALL, A. B., Instructor of Applied Science, Wentworth Institute, Boston, Mass. 1912

NEWKIRK, B. L., Assistant Professor of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1908

NEWMAN, C. M., Professor of English and Dean, Academic Dept., Virginia Polytechnic Institute, Blacksburg, Va. 1917

NEWTON, GUY D., Assistant Professor of Mechanical Drawing and Descriptive Geometry, University of Missouri, Columbia, Mo. .. 1913

NICHOLS, CHAS. S., Assistant to Dean and Director, Division of Engineering, Iowa State College, Ames, Ia. 1915

NOBLE, H. P., Consulting and Contracting Engineer, Falls Church, Va. 1908

NOERENBERG, C. E., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1910

NOLD, H. E., Assistant Professor of Mining Engineering, The Ohio State University, Columbus, O. 1916

NORRIS, E. B., Associate Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. 1907

NORRIS, H. H., Associate Editor, *Electric Railway Journal*, 239 W. 39th St., New York, N. Y. 1900

NORTHCOTT, J. A., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. 1915

NORTON, A. E., Assistant Professor of Engineering Drawing, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1910

NORTON, C. L., Massachusetts Institute of Technology, Boston, Mass. 1908

NOTTINGHAM, A. R., M. E. Dept., Purdue University, W. LaFayette, Ind. 1910

NUGENT, P. C., Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1914

NYSWANDER, R. E., Professor of Physics, University of Denver, Denver, Colo. 1912

OCKERBLAD, A. M., Examiner of Surveys in the U. S. Dept. of Agriculture, Forest Service, Washington, D. C. 1911

OGLESBY, E. J., Professor of Mathematics, College of William and Mary, Williamsburg, Va. 1915

OGLESBY, N. E., Instructor in Chemistry, University of Virginia, University, Va. 1915

OHLE, E. L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905

OLMSTED, CHAS. T., Instructor in Applied Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1914

OLSEN, TINIUS, President, Tinius Olsen Machine Co., 500 N. 12th St., Philadelphia, Pa. 1907

OLSON, O. A., Assistant Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1915

O'NEILL, J. F., Instructor, Mechanical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. 1912

ORTH, H. D., Assistant Professor of Mechanical Drawing, University of Wisconsin, Madison, Wis. 1910

ORTON, EDWARD, JR., Research Professor of Ceramic Engineering, The Ohio State University, Columbus, O. 1900

OSBORN, F. A., Professor of Physics, University of Washington, Seattle, Wash. 1907

OSBORN, G. M., Instructor in Sanitary Engineering, West Virginia University, Morgantown, W. Va. 1916

OSBORNE, L. A., Vice-President, Westinghouse Electric & Mfg. Co., 165 Broadway, New York, N. Y. 1911

O'SHAUGHNESSY, LOUIS, Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. 1912

OSSA, GASTON, Assistant in Physics, Universidad de Chile, Santiago, Chile, S. A. 1911

OSTRANDER, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass. 1894

OWENS, R. B., Secretary of The Franklin Institute, Philadelphia, Pa. 1894

PAINE, E. B., Professor of Electrical Engineering and Acting Head of the Department, University of Illinois, Urbana, Ill. 1911

PAINE, FRANK D., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915
PARCEL, J. I., Associate Professor of Structural Engineering, University of Minnesota, Minneapolis, Minn. 1910
PARK, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Boston, Mass. 1903
PARK, C. W., Associate Professor of English, University of Cincinnati, Cincinnati, O. 1915
PARKER, J. C., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1916
PARKIN, J. H., Lecturer in Mechanical Engineering, University of Toronto, Toronto, Ontario, Canada 1915
PARKS, C. W., Civil Engineer, United States Navy, Public Works Officer, Naval Station, Pearl Harbor, Honolulu, T. H. 1911
PARMELEE, H. C., President, Colorado School of Mines, Golden, Colo. 1916
PARMLY, CHAS. H., Professor of Physics, The College of the City of New York, N. Y. 1912
PARR, S. W., Professor of Applied Chemistry, University of Illinois, Urbana, Ill. 1912
PASSANO, L. M., Associate Professor of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1912
PATTEN, W. E., Professor of Civil Engineering, Government Institute of Technology, Shanghai, China 1915
PATTERSON, L. L., Professor of Electrical Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1915
PATTERSON, T. S., Instructor in Mechanics and Materials of Construction, The Pennsylvania State College, State College, Pa... 1914
PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907
PEARSON, R. A., President, Iowa State College, Ames, Ia..... 1914
PEHRSON, E. W., Assistant Professor of Mathematics, University of Utah, Salt Lake City, Utah 1915
PENCE, W. D., Member, Engineering Board, Interstate Commerce Commission, Chicago, Ill. 1895
PENDER, HAROLD, Professor of Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1909
PENN, J. C., Assistant Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1915
PERRY, C. F., Supervisor of Manual and Industrial Training, Milwaukee Public Schools, Milwaukee, Wis..... 1907
PERRY, F. G., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1916

1915 PERRY, W. H., Instructor in Applied Science, Wentworth Institute, Boston, Mass. 1913

1910 PETTEE, C. H., Dean and Professor of Mathematics, New Hampshire College, Durham, N. H. 1898

1903 PHALEN, HAROLD R., Professor of Mathematics, Berea College, Berea, Ky. 1914

1915 PHELON, J. O., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1902

1916 PHELPS, HOWARD E., Assistant Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914

1915 PHILBRICK, H. S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913

1911 PHILLIPS, H. C., General Secretary, President's Conference on Federal Valuation of Railroads, 937 Commercial Trust Bldg., Philadelphia, Pa. 1913

1916 PHILLIPS, J. D., Assistant Dean, College of Engineering, and Professor of Drawing, University of Wisconsin, Madison, Wis.... 1899

1912 PICKELS, G. W. JR., Associate in Civil Engineering, University of Illinois, Urbana, Ill..... 1910

1912 PINTO, ANTHONY, Assistant Professor of Electrical Engineering, Cooper Union, New York, N. Y. 1913

1912 PIPER, FRED. F., Instructor in Electrical Engineering, Mechanics Institute, Rochester, N. Y. 1915

1915 PLAGGE, H. J., Assistant Professor of Physics, Iowa State College, Ames, Ia. 1915

1915 PLANT, L. C., Head of the Department of Mathematics, Michigan Agricultural College, East Lansing, Mich. 1914

1914 POND, FRANCIS J., Professor of Chemistry and Director of Chemical Laboratory, Stevens Institute of Technology, Hoboken, N. J. 1912

1907 POND, G. G., Dean of the School of Natural Science, The Pennsylvania State College, State College, Pa. 1914

1914 POOLE, CECIL P., Consulting Engineer, Atlanta, Ga. 1907

1915 POORMAN, A. P., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907

1895 POPE, WILLARD, Vice-President and Engineer, The Canadian Bridge Co., Ltd., Walkerville, Ontario 1911

1909 PORTER, CHAS. T., Instructor in Mechanical Engineering, Yale University, New Haven, Conn. 1912

1915 PORTER, DWIGHT, Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1893

1907 PORTER, F. M., Associate in Engineering Drawing, University of Illinois, Urbana, Ill... 1912

1916 PORTER, H. E., Assistant Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915

PORTER, J. B., Professor of Mining Engineering, McGill University, Montreal, Quebec, Canada 1904
PORTER, J. F., President of the Tri-City Railway and Light Co., 125–127 West 3d St., Davenport, Iowa 1912
PORTER, J. M., Professor of Civil Engineering, Lafayette College, Easton, Pa. 1893
PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908
PORTER, R. H., Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1915
POTTER, A. A., Professor of Steam and Gas Engineering and Dean of the Engineering Division, Kansas State Agricultural College, Manhattan, Kans. 1908
POTTER, J. C., 257 Maple Ave., Oak Park, Ill. 1913
POTTS, R. J., Civil Engineer, 1412 Amicable Bldg., Waco, Tex. ... 1910
POUND, J. H., Instructor in Mechanical Engineering, Rice Institute, Houston, Tex. 1916
POWERS, W. P., Instructor in Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1914
PRATT, H. B., Test Engineer, Public Service Commission, Harrisburg, Pa. 1915
PRATT, J. A., Director, Williamson Free School of Mechanical Trades, Delaware Co., Pa. 1908
PRENTICE, D. B., Instructor in Mechanical Engineering, Yale University, New Haven, Conn. 1912
PRESS, ABRAHAM, Assistant Professor of Electrical Engineering, University of Oklahoma, Norman, Okla. 1916
PRICE, CHAS. B., Instructor in Mathematics and Drawing, Boys Trade School; Assistant Supervisor of Evening Trade School, Worcester Trade School, Worcester, Mass. 1914
PRIME, A. C., Consulting Engineer, 1008 Spruce St., Philadelphia, Pa. (Life Member) 1910
PRITCHARD, S. R., Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1914
PROBERT, F. H., Professor of Mining, University of California, Berkeley, Calif. 1917
PRYOR, F. L., Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1908
PULLEN, M. W., Instructor in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909
PURYEAR, CHARLES, Dean and Professor of Mathematics, Texas A. and M. College, College Station, Texas 1901

RABER, B. F., Associate Professor of Mechanical Engineering, University of California, Berkeley, Cal. 1915

RADEBAUGH, GUSTAV H., Instructor in Machine Shop Management and Practice, University of Illinois, Urbana, Ill. 1914

RALSTON, J. C., Consulting Engineer, also Vice-President and Consulting Engineer, Pacific Coast Pipe Co. of Seattle, 2421 W. Mission Ave., Spokane, Wash. 1910

RANDALL, J. A., Pratt Institute, Brooklyn, N. Y. 1911

RANDALL, O. E., Professor of Applied Mathematics and Dean of the University, Brown University, Providence, R. I. 1903

RANDOLPH, L. S., Professor of Mechanical Engineering and Dean of Engineering Dept., Virginia Polytechnic Institute, Blacksburg, Va. 1894

RANKIN, F. J., Electrical Engineer, Public Utilities Commission, Capitol Bldg., Denver, Colo. 1913

RASMUSEN, J. E., Associate Professor of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1910

RAY, H. C., Professor of Ore Dressing and Associate Professor of Metallurgy, University of Pittsburgh, Pittsburgh, Pa. 1916

RAYMOND, F. N., Associate Professor of Rhetoric, University of Kansas, Lawrence, Kans. 1910

RAYMOND, H. M., Dean, Engineering Studies, Armour Institute of Technology, Chicago, Ill. 1903

RAYMOND, W. G., Dean of the College of Applied Science and Professor of Civil Engineering, State University of Iowa, Iowa City, Ia. 1893

RAYNER, WM. H., Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1913

READ, B. K., Engineer, Valecia Condensed Milk Co., Madison, Wis. 1913

REBER, LOUIS E., Dean, University Extension Division, University of Wisconsin, Madison, Wis. 1893

REED, K. W., Principal, Apprentice School Warner & Swasey Co., Cleveland, O. 1915

REED, PERCY L., Senior Instructor in Civil Engineering, Drexel Institute, Philadelphia, Pa. 1914

REES, HARRY P., Instructor in Power Plant Practice, Wentworth Institute, Boston, Mass. 1910

REID, CLARENCE E., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1907

REID, E. A., Instructor in Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1916

REMICK, B. L., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915

RETTGER, E. W., Assistant Professor of Applied Mechanics, Cornell University, Ithaca, N. Y. 1910

REW, IRWIN, Trustee of Northwestern University, 1128 Ridge Ave., Evanston, Ill. 1913

RICE, H. A., Professor of Mechanics and Structural Engineering, University of Kansas, Lawrence, Kans. 1915

RICHARDS, C. RUSS, Professor of Mechanical Engineering, in charge of the Department, University of Illinois, Urbana, Ill. 1895

RICHARDS, CHAS. RUSSELL, Director, Cooper Union, New York, N. Y. 1904

RICHARDS, T. E., Instructor, Michigan College of Mines, Houghton, Mich. 1910

RICHARDS, WM. H., Instructor in Manual Training and Pattern Making, University of Minnesota, Minneapolis, Minn. 1910

RICHARDSON, CLIFFORD, Consulting Engineer, Room 1615 Woolworth Bldg., 233 Broadway, New York, N. Y. 1913

RICHARDSON, G. R., Instructor in Steam Engineering, Franklin Union, Boston, Mass. 1912

RICHARDSON, M. R., Durham, N. C. 1910

RICHEY, J. J., Associate Professor of Civil Engineering, Texas A. & M. College, College Station, Tex. 1910

RICHTER, A. W., Dean of the College of Engineering, University of Montana, Bozeman, Mont. 1894

RICHTMYER, F. K., Assistant Professor of Physics, Cornell University, Ithaca, N. Y. 1910

RICKER, N. C., Professor of Architecture, University of Illinois; President, Illinois Board of Examiners of Architects; Chairman, Illinois Commission on Building Laws, Urbana, Ill. 1894

RIDDERVOLD, A. S., Assistant Professor of Civil Engineering, University of Nebraska, Lincoln, Nebr. 1912

RIDOUT, JOHN, Student Assistant in Mathematics, University of Virginia, University, Va. 1915

RIESENBERGER, ADAM, Registrar and Treasurer, Stevens Institute of Technology, Hoboken, N. J. 1908

RIGGS, H. E., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913

RIGGS, N. C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

RIGGS, W. M., President and Consulting Professor of Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1897

RISLEY, W. J., Professor of Mathematics, James Millikin University, Decatur, Ill. 1910

RITTENHOUSE, L. H., Associate Professor of Electrical Engineering, Haverford College, Haverford, Pa. 1906

ROARK, LOUIS, Instructor in Geology, Mississippi A. & M. College, Agricultural College, Miss. 1914

ROBBINS, A. G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBBINS, F. A., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1913

ROBERT, J. H., Instructor in Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

ROBERTS, H. A., Assistant Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915

ROBERTS, MILNOR, Dean of the College of Mines, and Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

ROBERTS, W. J., Chief Engineer, Inter-County River Improvement, 401 Court House, Tacoma, Wash. 1903

ROBERTSON, J. E., Professor of Mathematics, Highland Park College, Des Moines, Ia. 1913

ROBERTSON, JOHN E., Instructor in Civil Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1914

ROBINSON, EDW., Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1899

ROBINSON, M. B., Instructor in Co-ordination, University of Cincinnati, Cincinnati, O. 1915

ROCKWELL, E. H., Professor of Structural Engineering, Tufts College, Tufts College, Mass. 1907

ROCKWELL, ROBERT L., Head, Department of Electrical Engineering, Seattle Engineering School, Inc., Seattle, Wash. 1915

RODGERS, L. J., Head of Dept. of Machine Work, Wentworth Institute, Boston, Mass. 1912

RODHOUSE, T. J., Associate Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

RODMAN, W. S., Associate Professor of Electrical Engineering, University of Virginia, University, Va. 1915

ROE, J. W., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908

ROEBER, E. F., Editor, *Metallurgical and Chemical Engineering*, 239 W. 39th St., New York, N. Y. 1909

ROGERS, C. E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917

ROGERS, RALPH, 1113 Lakeview Road, Cleveland, O. 1908

ROHRER, A. L., Electrical Superintendent, Schenectady Works, General Electric Co., Schenectady, N. Y. 1911

ROLLINS, A. P., Assistant Engineer, Medina Irrigation Co., San Antonio, Texas 1912

ROLLINS, E. B., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912

ROLLINS, JAS. W., President, Holbrook, Cabot & Rollins Corp., Engineers and Contractors, Boston, Mass. 1913

RONDINELLA, L. F., Head of Department of Drawing and Design, West Philadelphia High School for Boys, Philadelphia, Pa. .. 1903

ROOD, JAS. T., Professor (in charge) of Department of Electrical Engineering, Lafayette College, Easton, Pa. 1914

ROOT, J. E., Assistant Engineer, Division of Sewerage, Dept. of Public Service, Cincinnati, O. 1910

ROOT, R. E., Professor of Mathematics and Mechanics, Post-Graduate Dept., U. S. Naval Academy, Annapolis, Md. 1914

RORTY, M. C., Special Agent, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y. 1912

ROSEBRUGH, T. R., Professor of Electrical Engineering, University of Toronto, Toronto, Ontario, Canada..... 1896

ROSING, A. S., Civil Engineer, 7066 Paulina St., Chicago, Ill. 1911

ROWELL, L. D., Associate Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910

ROWLAND, ARTHUR J., Dean and Professor of Electrical Engineering, Drexel Institute, Philadelphia, Pa. 1903

ROWLEY, F. B., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910

ROYS, F. W., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1914

RUGG, H. O., Instructor in Education, School of Education, University of Chicago, Chicago, Ill. 1909

RUGGLES, S. L., Instructor in Civil Engineering, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1910

RUSK, W. W., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1917

RUSSELL, L. K., Professor of Chemistry, Clarkson School of Technology, Potsdam, N. Y..... 1910

RUSSELL, W. B., Director, Franklin Union, Boston, Mass..... 1903

RYAN, H. J., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1901

RYAN, W. T., Assistant Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1911

SADLER, H. C., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich..... 1907

LIST OF MEMBERS.

SALAZAR, ARTURO EDMUNDO, Professor of Applied Physics and Electrical Engineering, Universidad de Chile, Santiago de Chile, S. A. 1914

SALE, C. S., Assistant to Director, Engineering Experiment Station, Instructor in Civil Engineering, University of Illinois, Urbana, Ill. 1916

SANBORN, F. E., Professor of Industrial Arts, Ohio State University, Columbus, O. 1899

SANDERS, W. H., Instructor in Farm Motors, Kansas State Agricultural College, Manhattan, Kans. 1915

SATTERFIELD, H. E., Professor of Mechanical Engineering, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1909

SAVANT, D. P., Instructor in Electrical Engineering, University of Missouri, Columbia, Mo. 1917

SAVILLE, THORNDIKE, Assistant in Municipal Administration and Geology, Harvard University, Cambridge, Mass. 1915

SAWYER, A. R., Professor of Electrical Engineering, Michigan Agricultural College, East Lansing, Mich. 1907

SAYRE, M. F., Instructor in Engineering, Union College, Schenectady, N. Y. 1917

SCARBOROUGH, J. B., Instructor in Mathematics, North Carolina College of A. & M., Raleigh, N. C. 1915

SCHEALER, S. R., Assistant Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1911

SCHERER, J. A. B., President, Throop College of Technology, Pasadena, Calif. 1913

SCHILDHAUER, EDWARD, President, Artillery Fuse Co., Wilmington, Del.; General Manager, New Castle Construction Co., 30 Church St., New York, N. Y. 1912

SCHMIDT, E. C., Professor of Railway Engineering, University of Illinois, Urbana, Ill. 1907

SCHNEIDER, HERMAN, Professor of Civil Engineering and Dean of the College of Engineering, University of Cincinnati, Cincinnati, O. 1903

SCHUERMAN, W. H., Dean of the School of Engineering and Professor of Pure and Applied Mathematics, Vanderbilt University, Nashville, Tenn. 1895

SCHWARZE, C. T., Assistant Professor of Civil Engineering, Cooper Union, New York, N. Y. 1912

SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910

SCOATES, DANIELS, Professor of Agricultural Engineering, Mississippi A. & M. College, Agricultural College, Miss. 1914

SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1904
SCRUGHAM, J. G., Dean, College of Engineering, University of Nevada, Reno, Nev. 1914
SCULLEN, A. J., In charge of Dept. of Civil Engineering, Catholic University of America, Washington, D. C., ... 1916
SEARSON, J. W., Professor of English, Kansas State Agricultural College, Manhattan, Kans. 1915
SEATON, L. F., Associate Professor of Agricultural Engineering, University of Nebraska, Lincoln, Nebr..... 1914
SEATON, R. A., Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1912
SEAVER, H. L., Associate Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1908
SEELY, F. B., Associate in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913
SEERY, FRANCIS J., Assistant Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1908
SELBY, L. B., Inspector, Ohio Inspection Bureau, Columbus, O. 1911
SELLERS, ROBT. R., Assistant Engineer, Office of Chief Engineer, Missouri Pacific Ry. System, St. Louis, Mo. 1913
SEVER, G. F., Consulting Electrical Engineer, 13 Park Row, New York, N. Y. 1903
SEWARD, H. L., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1910
SEXTON, F. H., President of the Nova Scotia Technical College, and Director of Technical Education, Halifax, Nova Scotia..... 1908
SEYFERT, S. S., Associate Professor of Electrical Engineering, Lehigh University, South Bethlehem, Pa. 1908
SHAAD, G. C., Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1907
SHANE, ADOLPH, Dean of Engineering and Professor of Electrical Engineering, Highland Park College, Des Moines, Ia. 1907
SHATTUCK, E. L., Professor of Applied Mechanics and Thermodynamics, Louisiana Industrial Institute, Ruston, La. 1914
SHATTUCK, H. B., Associate Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906
SHATTUCK, L. H., Instructor in Civil Engineering, University of Colorado, Boulder, Colo. 1915
SHAW, H. B., Commissioner, Public Service Commission of Missouri, Jefferson City, Mo. 1907
SHELDON, SAMUEL, Professor of Physics and Electrical Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y..... 1903

SHELDON, S. R., Dean and Professor of Electrical Engineering, Government Institute of Technology, Shanghai, China 1914

SHENEHON, F. C., Dean of the College of Engineering, University of Minnesota, Minneapolis, Minn. 1909

SHEPARDSON, G. D., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1895

SHEPPARD, H. S., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1914

SHERMAN, C. E., Professor of Civil Engineering, Ohio State University, Columbus, Ohio 1907

SHIPLEY, S. C., Assistant Professor of Machine Construction, and Superintendent of Shops, University of Minnesota, Minneapolis, Minn. 1908

SHOOP, C. F., Assistant Professor of Experimental Engineering, Acting Head of Dept., University of Minnesota, Minneapolis, Minn. 1906

SHORT, R. L., Principal, West Technical High School, Cleveland, O. 1902

SHUSTER, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1907

SHUTT, J. C., Assistant Instructor in Steam and Gas Engineering, Kansas State Agricultural College, Manhattan, Kans. 1914

SIBLEY, F. H., Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1910

SIMMERING, S. L., Assistant Professor of Steam and Gas Engineering, Kansas State Agricultural College, Manhattan, Kans. ... 1913

SKELTON, R. H., Instructor in Civil Engineering, Yale University, New Haven, Conn. 1914

SLAGLE, W. C. H., Assistant Professor, University of Pennsylvania, Philadelphia, Pa. 1917

SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Neb. 1910

SLICHTER, C. S., Professor of Applied Mathematics, University of Wisconsin; Consulting Engineer, U. S. Reclamation Service, Madison, Wis. 1906

SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911

SLOCUM, R. H., Professor of Civil Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1903

SLUSS, A. H., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915

SMALLWOOD, JULIAN C., Associate Professor of Mechanical Engineering, Syracuse University, Syracuse, N. Y. 1912

SMITH, ARTHUR BESSEY, Electrical Engineer, The Automatic Electric Co., Chicago, Ill. 1911

SMITH, A. L., Professor of Drawing and Machine Design, Worcester Polytechnic Institute, Worcester, Mass. 1902
SMITH, E. B., Mechanical Engineer, Bureau of Soils, Washington, D. C. 1906
SMITH, H. B., Professor of Electrical Engineering, and Director of Electrical Engineering Dept., Worcester Polytechnic Institute, Worcester, Mass. 1898
SMITH, HARRY E., Professor of Steam Engineering, and Supt. of Power Plant, Texas A. & M. College, College Station, Tex. 1895
SMITH, H. S. S., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1894
SMITH, J. E., Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1916
SMITH, J. HAMMOND, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1910
SMITH, JESSE M., Mechanical and Electrical Consulting Engineer, 194 Riverside Drive, New York, N. Y. 1911
SMITH, L. S., Associate Professor of Topographic and Highway Engineering, University of Wisconsin, Madison, Wis. 1903
SMITH, P. F., Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. 1908
SMITH, P. R., Educational Dept., General Electric Co., Pittsfield, Mass. 1913
SMITH, RICHARD R., Manager, College Department, The Macmillan Company, 66 Fifth Ave., New York, N. Y. 1914
SMITH, S. A., Assistant in Dept. of Architecture and Drawing, Kansas State Agricultural College, Manhattan, Kans. 1914
SMITH, WM. G., Assistant Professor of Kinematics and Descriptive Geometry, Armour Institute of Technology, Chicago, Ill. 1914
SMOLEY, C. K., Civil and Structural Engineer, International Textbook Co., Scranton, Pa. 1913
SMULL, T. J., JR., Dean of the College of Engineering and Professor of Civil Engineering, Ohio Northern University, Ada, O. 1907
SMYTH, H. L., Professor of Mining and Metallurgy and Director of the Mining and Metallurgical Laboratory, Harvard University, Cambridge, Mass. 1907
SNAVELY, T. R., Fellow of the Phelps Stokes Foundation, University of Virginia, University, Va. 1916
SNOW, CHAS. H., Dean of School of Applied Science and Professor of Civil Engineering, New York University, New York, N. Y. .. 1895
SNOW, O. L., Assistant Professor of Physics, Michigan Agricultural College, East Lansing, Mich. 1911

SNOW, WALTER B., Publicity Engineer, 136 Federal St., Boston, Mass. 1899

SOLBERG, H. C., Professor of Mechanical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1894

SORENSEN, R. W., Professor of Electrical Engineering, Throop College of Technology, Pasadena, Calif. 1912

SPALDING, F. P., Professor of Civil Engineering, University of Missouri, Columbia, Mo. 1893

SPEIRS, CHAS. E., Vice-President, D. Van Nostrand Company, Publishers, New York, N. Y. 1914

SPENCE, D. W., Professor of Civil Engineering and Dean of Engineering, A. & M. College of Texas, College Station, Texas 1914

SPERR, F. W., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich..... 1896

SPERRY, C. S., Assistant Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. 1914

SPINNEY, L. B., Professor of Physics, Iowa State College, Ames, Ia. 1899

SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1904

SPOONER, H. J., Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, Regent St., W., London, England 1912

SPRAGUE, F. J., Consulting Engineer, 165 Broadway, New York, N. Y. 1911

SPRINGER, F. W., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1896

SPRINGER, G. P., Assistant Professor of Civil Engineering, Maryland State College of Agriculture, College Park, Md. 1917

ST. JOHN, E. R., Designing Engineer, American Bridge Co., Pittsburgh, Pa. 1916

STANFORD, J. V., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa..... 1907

STANLEY, W. E., Instructor in Hydraulics Laboratory, Purdue University, LaFayette, Ind. 1915

STANTON, CHAS. B., Assistant Professor of Railway Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915

STAPLES, E. I., Instructor in Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1916

STARKEY, L. C., Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa..... 1914

STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912

STEINMAN, D. B., Special Assistant Engineer, New York Connecting Railroad, 68 William St., New York, N. Y. 1910

STEINMETZ, C. P., Chief Consulting Engineer, General Electric Co.; Professor of Electrophysics, Union University, Schenectady, N. Y. 1910

STELZNER, W. B., Adjunct Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark..... 1914

STEPHENSON, S. A., JR., Assistant Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1910

STETSON, J. M., Adelbert College, Western Reserve University, Cleveland, O. 1914

STEVENS, A. C., Instructor in Electrical Engineering, Cornell University, Ithaca, N. Y. 1912

STEVENS, E. F., Librarian, Pratt Institute Free Library, and Director, School of Library Science, Brooklyn, N. Y. 1908

STEVENS, F. H., Assistant Professor Engineering Mechanics, College of Engineering, University of Michigan, Ann Arbor, Mich. 1915

STEVENS, J. FLOYD, Assistant Professor of Electrical Engineering, University of North Dakota, University, N. D. 1913

STEVENS, W. LECONTE, Professor of Physics, Washington & Lee University, Lexington, Va. 1916

STEWARD, R. K., Professor of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910

STEWART, C. E., Assistant Professor of Mechanic Arts, Franklin Union, Boston, Mass. 1908

STEWART, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia..... 1910

STEWART, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada..... 1897

STEWART, O. M., Professor of Physics, University of Missouri, Columbia, Mo. 1909

STILLWELL, L. B., Consulting Engineer, 100 Broadway, New York, N. Y. 1912

STIVERS, E. R., Instructor in Civil Engineering, University of Florida, Gainesville, Fla. 1917

STOCKWELL, F. C., Instructor in Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

STOEK, H. H., Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1907

STONE, CHAS. W., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1911

STONE, E. A., Professor of General Engineering, Queen's University, Kingston, Ontario 1907

STONE, JULIUS F., Trustee, The Ohio State University, c/o Seagrave Co., Columbus, O. 1913
STORM, E. R., Architect, 160 Fifth Ave., New York, N. Y. 1908
STOUT, O. V. P., Dean of the College of Engineering and Professor of Civil Engineering, University of Nebraska, Lincoln, Neb. 1894
STRAW, J. B., Instructor, University of Pennsylvania, Philadelphia, Pa. 1915
STRONG, ALBERT J., Instructor in Machine Design and Supt. of Shops, University of Florida, Gainesville, Fla. 1913
STREETER, R. L., Professor of Steam and Gas Engine Design, Rensselaer Polytechnic Institute, Troy, N. Y. 1913
STURGES, T. L., JR., Professor of Electrical Engineering, Delaware College, Newark, Del. 1910
SULLIVAN, GEO. L., Professor of Mechanical Engineering, University of Santa Clara, Santa Clara, Calif. 1912
SURVEYOR, ARTHUR, Consulting Engineer; Arthur Surveyor & Co., 56 Beaver Hall Hill, Montreal, P. Q. Canada 1914
SUTHERLAND, C. H., Instructor in Civil Engineering, Massachusetts Institute of Technology, Boston, Mass. 1914
SUTTIE, R. H., Instructor in Civil Engineering, Yale University, New Haven, Conn. 1912
SVENSEN, C. L., Instructor in Engineering Drawing, The Ohio State University; Prop., Ohio Technical Drawing School, Columbus, O. 1909
SWAIN, G. F., Professor of Civil Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1893
SWAMY, B. N., Overseer, Town and Water Works, Berhamhere, Guajam, Madras, South India 1913
SWARTZEL, K. D., Professor of Mathematics, The Ohio State University, Columbus, O. 1910
SWEENY, F. R. I., Clemson College, Clemson College, S. C. 1912
SWEETSER, E. O., Assistant Professor of Civil Engineering, Washington University, St. Louis, Mo. 1910
SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910
SWETT, G. W., Assistant Professor of Machine Design, Massachusetts Institute of Technology, Boston, Mass. 1907
SWIFT, WALTER, Secretary, Department of Applied Science, University of Sheffield, Sheffield, England 1902
SYPHERD, W. O., Professor of English, Delaware College, Newark, Del. 1914

TABOR, WM. H., Instructor in Industrial Engineering, Pennsylvania State College, State College, Pa. 1914

TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, and in charge of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1893

TALBOT, H. P., Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 1902

TALLMAN, WM. D., Professor of Mathematics, Montana State College of A. & M. Arts, Bozeman, Mont. 1914

TANZER, E. Dean, Assistant Professor of Electrical Engineering, Lafayette College, Easton, Pa. 1915

TAYLOR, I. I., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1915

TAYLOR, KNOX M., President, Taylor-Wharton Iron & Steel Co., High Bridge, N. J. 1916

TAYLOR, L. B., Torpedo Engineer, U. S. Naval Torpedo Station, Newport, R. I. 1912

TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas..... 1902

TAYLOR, W. C., Assistant Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913

TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913

TELLEEN, J. M., Assistant Professor of English, Case School of Applied Science, Cleveland, O. 1908

TEMPLE, W. E. S., Consulting Engineer, Swarthmore, Pa. 1912

TERRILL, ARTHUR C., Head, Dept. of Mining Engineering, University of Kansas, Lawrence, Kans. 1916

TERRELL, R. C., Professor of Highway Engineering, State University of Kentucky, Lexington, Ky.; State Commissioner of Public Roads, Frankford, Ky. 1913

THACH, C. C., President, Alabama Polytechnic Institute, Auburn, Ala. 1905

THALER, J. A., Professor of Electrical Engineering, Montana State College of A. and M. Arts, Bozeman, Mont. 1901

THAYER, H. R., Assistant Professor of Structural Design, Carnegie Institute of Technology, Pittsburgh, Pa. 1911

THOMAS, A. L., Assistant Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1907

THOMAS, C. C., Head of the Department of Mechanical Engineering, Johns Hopkins University, Baltimore, Md. 1908

THOMAS, C. F., Instructor in Mathematics, Case School of Applied Science, Cleveland, O. 1909

THOMAS, CHAS. W., Instructor in Mechanical Drawing, University of Wisconsin, Madison, Wis. 1912
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THOMPSON, JAMES S., With McGraw-Hill Book Co., 239 W. 39th St., New York, N. Y. 1911
THOMSON, FRANCIS A., Head of Department of Mining and Metallurgy, State College of Washington, Pullman, Wash. 1915
THOMSON, R. D., Efficiency Engineer, General Electric Company, West Lynn, Mass. 1912
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THORNBURG, C. L., Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa..... 1894
THORNTON, W. M., Professor of Applied Mathematics and Dean of the Department of Engineering, University of Virginia, University, Va. 1916
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TIBBETTS, F. H., Civil Engineer, Alaska Commercial Bldg., San Francisco, Calif. 1908
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TITSWORTH, A. A., Professor of Civil Engineering, Dean of Engineering, Rutgers College, New Brunswick, N. J. 1903
TIVEY, J. P., Engineer, Australian General Electric Co., Mazda House, Wentworth Ave., Sydney, Australia 1912
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TOMPKINS, V. D., Supt. of Electrical Shops, Robert College, Constantinople, Turkey 1915
TOPPING, A. N., Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
TOUCEDA, E. A., Professor of Metallurgy, Rensselaer Polytechnic Institute, Troy, N. Y. 1907
TOWER, C. H., Engineer, The Motor Devices Co., 1033 Williamson Bldg., Cleveland, Ohio 1911
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TOWNE, L. J., Supt. of Construction with Supervising Architect, University of Illinois, Urbana, Ill. 1911
TRACY, J. C., Professor of Civil Engineering, Yale University, New Haven, Conn. 1907
TRAILL, J. J., Lecturer on Hydraulics, University of Toronto, Toronto, Ont., Canada 1912
TRUMMELL, M. F., Waukegan, Ill. 1915
Tucker, E. N., Instructor in Mathematics, Virginia Episcopal School, Lynchburg, Va. 1915
TUCKER, J. I., Professor and Director of the School of Civil Engineering, University of Oklahoma, Norman, Okla. 1912
TURLEY, O. J., Consulting Civil and Irrigation Engineer, Sante Fe, New Mexico 1912
TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. 1894
TURNER, C. A. P., Engineer, 2675 Lake of Isles Blvd., Minneapolis, Minn. 1913
TURNER, D. L., Deputy Engineer of Subway Construction, Public Service Commission for the First District, 606 W. 116th St., New York, N. Y. 1898
TURNER, W. P., Professor of Practical Mechanics, Purdue University LaFayette, Ind. 1900
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TYLER, H. W., Professor of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1894

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WALKER, CHAS. L., Assistant Professor of Sanitary Engineering, College of Civil Engineering, Cornell University, Ithaca, N. Y. 1910

WALKER, E. D., Professor of Hydraulic and Sanitary Engineering, Pennsylvania State College, State College, Pa 1895

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WALKER, P. F., Professor of Mechanical Engineering and Dean of the School of Engineering, University of Kansas, Lawrence, Kans. 1907

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WALTER, J. E., Professor of Mechanical Engineering, Highland Park College, Des Moines, Ia. 1915

WATERMAN, E. L., Associate Professor of Sanitary Engineering, Pennsylvania State College, State College, Pa. 1907

WATERMAN, I. F., Instructor in Civil Engineering, John B. Stetson University, De Land, Fla. 1916

WATERS, E. O., Instructor in Machine Design, Sheffield Scientific School, Yale University, New Haven, Conn. 1914

WATSON, H. L., Checker, Electric Boat Co., Groton, Conn. 1914

WATSON, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910

WATTS, C. W., Professor of Mathematics, The Virginia Military Institute, Lexington, Va. 1911

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WEBBER, R. I., Head of Department of Drawing and Architectural Engineering, Pennsylvania State College, State College, Pa. .. 1907

WEBER, JOHN, Assistant Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

WEED, J. M., Member of Student Committee, General Electric Co., Pittsfield, Mass. 1911

WEINBACH, M. P., Assistant Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

WENDELL, G. V., Professor of Physics, Columbia University, New York, N. Y. 1900

WENDT, W. B., Assistant Professor of Applied Mechanics, Kansas State Agricultural College, Manhattan, Kans. 1908

WENRICH, C. N., Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1914

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WESTCOTT, A. L., Assistant Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1908

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

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WHEELER, L. P., Assistant Professor of Physics, Yale University, New Haven, Conn. 1908

WHIPPLE, G. C., Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. 1896

WHITAKER, M. C., Professor of Chemical Engineering, Columbia University, New York, N. Y. 1912

WHITE, A. E., Associate Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1910

WHITE, E. C., Professor of Civil Engineering, New Mexico School of Mines, Socorro, N. Mex. 1913

WHITE, J. M., Professor of Architectural Engineering and Supervising Architect, University of Illinois, Urbana, Ill. 1900

WHITEHEAD, J. B., Professor of Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1913

WHITIN, E. S., Instructor, Penal Problems, Columbia University; Chairman Executive Committee, National Committee on Prisons and Prison Labor, New York, N. Y. 1913

WHITMORE, J. B., Shop Superintendent, West Technical High School, Cleveland, O. 1910

WHITTEMORE, H. L., Associate Professor of Mechanics, University of Oklahoma, Norman, Okla. 1909

WICKENDEN, WM. E., Assistant Professor of Electrical Engineering, Massachusetts Institute of Technology, Boston, Mass. ... 1912

WIGLEY, W. R., Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1915

WILD, H. J., Professor of Engineering, Pennsylvania Military College, Chester, Pa. 1914

WILEY, W. O., Publisher of Scientific Books, Treasurer, John Wiley & Sons, Inc., New York, N. Y. 1904

WILLIAMS, C. C., Professor of Railway Engineering, University of Kansas, Lawrence, Kans. 1909

WILLIAMS, F. B., Professor of Mathematics, Clark College, Worcester, Mass. 1901

WILLIAMS, O. E., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910

WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 734 N. Fairoaks Ave., Oak Park, Ill. 1893

WILLIAMS, W. S., Associate Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913

WILLIS, A. J., Professor of Civil Engineering, South Dakota State College, Brookings, S. D. 1912

WILLIS, PAUL, President, Kenwood Bridge Co., 4857 Dorchester Ave., Chicago, Ill. 1910

WILLISTON, ARTHUR L., Principal, Wentworth Institute, Boston, Mass. 1897

WILLSON, F. G., Head of Dept. of Applied Electricity, Wentworth Institute, Boston, Mass. 1912

WILLSON, F. N., Professor of Graphics, Princeton University, Princeton, N. J. 1913

WILMORE, J. J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1894

WILSON, A. M., Professor of Electrical Engineering, University of Cincinnati, Cincinnati, O. 1907

WILSON, GEO. S., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912

WILSON, JOHN F., Instructor in Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1913

WILSON, W. L., Professor of Railroad Engineering, Lehigh University, South Bethlehem, Pa. 1909

WILSON, WILBUR M., Assistant Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914

WING, S. R., Professor of Mechanical and Electrical Engineering, Pennsylvania College, Gettysburg, Pa. 1914

WINSLOW, A. E., Professor of Civil Engineering, Norwich University, Northfield, Vt. 1914

WINTER, J. W., Instructor in Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1914

WIRT, F. A., Assistant Professor in Farm Machinery, Kansas State Agricultural College, Manhattan, Kans. 1914

WITHAM, R. L., Electrical Engineer, Industrial Division, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1914

WITHEY, M. O., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910

WITHROW, JAMES R., Professor of Chemistry, Ohio State University, Columbus, O. 1907

WITTIG, GUSTAV, Professor of Electrical Engineering and Physics, University of Alabama, University, Ala. 1910

WOLF, HARRY J., Professor of Mining, Colorado School of Mines, Golden, Col. 1914

WOLFE, W. S., Instructor in Architectural Engineering, University of Illinois, Urbana, Ill. 1916

WOLFEL, PAUL L., Chief Engineer, McClintic-Marshall Co., Pittsburgh, Pa. 1910

WOOD, A. J., Associate Professor of Railway Mechanical Engineering, Pennsylvania State College, State College, Pa. 1898

WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910

WOODMAN, J. E., Professor of Geology and Director of Geological Museum, New York University, New York, N. Y. 1912

WOODS, H. C., Assistant Professor of Civil Engineering, Robert College, Constantinople, Turkey 1910

WOODWARD, R. S., President, Carnegie Institution of Washington, Washington, D. C. 1893

WOODWARD, S. M., Hydraulic Engineer, c/o Miami Conservancy District, Dayton, O. 1910

WOOSTER, L. F., Assistant Professor of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1912

WRAY, J. G., HAGENAH AND ERICKSON, Consulting Engineer, First National Bank Bldg., Chicago, Ill. 1911

WRIGHT, A. S., Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1907

WRIGHT, C. A., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1916
WRIGHT, D. M., Sec'y and Treasurer, The Henry & Wright Mfg. Co., 52 Irving St., Hartford, Conn. 1914
WURTS, A. J., Professor and Head of Department Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
WYMAN, F. T., Chief Engineer, Packard Electric Co., St. Catherines, Ont. 1912
YERZLEY, W. A., Secretary and Engineer, Nagle Re-Blade Knife Co., Newark, N. J. 1907
YOUNG, C. M., Associate Editor, *Coal Age* and *The Colliery Engineer*, Scranton, Pa. 1907
YOUNG, C. R., Assistant Professor of Structural Engineering, University of Toronto, Toronto, Ont. 1914
YOUNG, G. A., Professor and Head of the Department of Mechanical Engineering, Purdue University, LaFayette, Ind. 1907
ZELLER, J. W., Duval High School, Jacksonville, Fla. 1912
ZELNER, O. S., Assistant Professor of Surveying, University of Minnesota, Minneapolis, Minn. 1910
ZERN, EDW. N., Professor of Mining Engineering, West Virginia University, Morgantown, W. Va. 1914
ZIMMERMAN, O. B., Advisory Engineer to Sales and Manufacturing in Europe, 11–13 Rue d'Arenberg, Brussels, Belgium 1902
ZIWET, ALEXANDER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1897
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Colorado	40	Nevada	4	Wyoming	6
Connecticut	26	New Hampshire	8	Australia	7
Delaware	6	New Jersey	42	Belgium	1
Dist. of Columbia	13	New Mexico	7	Brazil	2
Florida	7	New York	163	Canada	35
Georgia	4	North Carolina	12	Chile	3
Idaho	3	North Dakota	7	China	5
Illinois	100	Ohio	82	England	2
Indiana	32	Oklahoma	10	Greece	1
Iowa	39	Oregon	10	Hawaii Territory	2
Kansas	50	Pennsylvania	179	Hungary	1
Kentucky	4	Rhode Island	13	India	4
Louisiana	10	South Carolina	8	Japan	3
Maine	9	South Dakota	8	Mexico	1
Maryland	10	Tennessee	8	Norway	1
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Withey, M. O.
Wood, E. H.
Woodward, S. M.

MINING ENGINEERING

Black, R. M.
Boyle, A. C., Jr.
Chedsey, W. R.
Cobb, Collier.
Comstock, E. H.
Daniels, Jos.
Dyer, F. C.
Fisher, James.
Gates, A. O.
Haultain, H. E. T.
Hodson, L. C.
Holbrook, E. A.
Kidd, J. W.
McClelland, J. F.
Munroe, H. S.
Porter, J. B.
Probert, F. H.
Roberts, Milnor.
Smyth, H. L.
Sperr, F. W.
Stoek, H. H.
Terrill, A. C.
Thomson, Francis A.
Wadsworth, M. E.
Wolf, Harry J.
Young, C. M.
Zern, Edw. N.

PHYSICS

Allee, W. G.
Angel, Wm. P.
Ball, Albert.
Bellis, A. E.
Bevan, W. A.
Brown, S. L.
Charles, R. L.
Cloke, Paul.
Cooper, F. L.
Dadourian, H. M.
Douglas, J. F. H.
Dysart, P. M.
Floyd, E. V.
Franklin, W. S.
Gilmore, L. H.
Graham, P. H.
Grondahl, L. O.
Ham, Wm. R.
Hamilton, J. O.
Hedrick, Wm. A.
Hitchcock, Geo. G.
Hoffman, A. H.
Hotchkiss, Homer J.
Hower, H. S.
Hoxton, L. G.
Kinsley, Carl.
Knowlton, A. A.
LePage, Clifford B.
Lester, O. C.
Lodge, W. L.
McFarland, David F.
McMurtray, H. D.
MacNutt, Barry.
Mallory, Francis.
Mann, C. R.
Marsh, H. E.
Marvin, H. H.
Mathews, H. B.
Miller, Dayton C.
Molby, F. A.
Norton, C. L.
Nyswander, R. E.
Osborn, F. A.
Ossa, Gaston.
Parmly, Chas. H.
Plagge, H. J.
Pond, Francis J.
Porter, R. A.
Randall, J. A.
Richtmyer, F. K.
Russell, L. K.
Snow, O. L.
Spinney, L. B.
Stevens, W. LeConte.
Stewart, G. W.
Stewart, O. M.
vonEnde, C. L.
Wendell, G. V.
Wenrich, C. N.
Wheeler, L. P.
Withrow, James R.

SANITARY ENGINEERING

Barney, S. E.
Case, George W.
Evinger, M. I.
Hawley, J. B.
Hering, Rudolph.
Hill, J. E.

OCCUPATIONAL DISTRIBUTION OF MEMBERSHIP.

Hoad, W. C.
Jones, G. R.
Knowles, Morris.
Long, J. J.
Lund, Jacob.
Mackenzie, C. J.
Mead, D. W.
Naidu, K. S.
Root, J. E.
Saville, Thorndike.
Walker, Chas. L.
Walker, E. D.
Waterman, E. L.
Whipple, G. C.

SHOP AND MECHANIC ARTS

Acker, M. W.
Adams, Conrad A.
Applin, Samuel.
Benedict, B. W.
Bloemker, Chas. W.
Carter, Chas. J.
DeTurk, J. A.
Eaton, J. S.
Ellis, Frederick.
Fawkes, G. W. H.
Folk, J. Thomas.
Goddard, A. L.
Hall, P. R.
Hayes, Thornton.
Hendry, W. S.
Henley, W. W.
Herget, A. M.
Johnson, E. A.
Jones, F. E.
Kinsey, A. S.
Knight, W. A.
Krewson, R. H.
Lynch, D. E.
Morris, J. J.
Mounce, J. L.
Murphy, J. F.
Newhall, A. B.
Noble, H. P.
Perry, C. F.
Richards, Wm. H.
Rodgers, L. J.
Steele, J. N.
Stewart, C.E.
Tabor, Wm. H.
Thompson, Alfred.
Turner, W. P.
Usry, E. L.

MISCELLANEOUS

Arnett, L. D.
Coster, E. L.
Creighton, E. E. F.
Crowe, C. P.
Crum, R. W.
Domonoske, A. B.
Duff, C. M.
Fetter, Frank A.
Fisher, R. T.
Gorrow, Edw. M.
Hallsted, J. C.
Handforth, C. H.
Hastings, H. B.
Kay, Edgar B.
Lewis, O. L.
Read, B. K.
Richards, T. E.
Rogers, Ralph.
Selby, L. B.
Slagle, W. C. H.
Snavely, T. R.
Tower, C. H.
Turner, C. A. P.
Ux, Russell R.

SUMMARY BY OCCUPATIONS.

Administration Officers:	*A*—College and University	167
	B—Industrial	101
Architecture		16
Agricultural Engineering		11
Chemistry		22
Civil Engineering		290
Electrical Engineering		220
Geology and Metallurgy		12
Language		14
Machine Design and Drawing		66
Mathematics		92
Mechanical Engineering		217
Mechanics and Materials		59
Mining Engineering		22
Physics		52
Sanitary Engineering		20
Shop and Mechanic Arts		38
Miscellaneous		28
		1447

INSTITUTIONS REPRESENTED.

	1915	1916	1917
Acadia University, Wolfville, Nova Scotia	0	1	0
Agnes Scott College, Decatur, Ill.	0	0	1
Akron, Municipal University of, Akron, O.	2	3	2
Alabama Polytechnic Institute, Auburn, Ala.	8	9	9
Alabama, University of, University, Ala.	5	4	4
Alberta, University of, Edmonton South, Alta, Canada	2	2	2
Alexander Hamilton Institute, New York, N. Y.	1	1	1
Arizona, University of, Tucson, Ariz.	2	4	4
Arkansas, University of, Fayetteville, Ark.	6	5	5
Armour Institute of Technology, Chicago, Ill.	6	7	7
Berea College, Berea, Ky.	0	1	1
Boston Industrial School for Boys, Boston, Mass.	2	2	1
Bradley Polytechnic Institute, Peoria, Ill.	2	2	1
Brooklyn Manual Training H. S., Brooklyn, N. Y.	1	1	1
Brooklyn Polytechnic Institute, Brooklyn, N. Y.	8	9	10
Brown University, Providence, R. I.	9	8	6
Bucknell University, Lewisburg, Pa.	2	2	2
California, University of, Berkeley, Cal.	4	7	9
Carnegie Institution, Washington, D. C.	1	1	1
Carnegie Institute of Technology, Pittsburgh, Pa.	14	14	15
Case School of Applied Science, Cleveland, O.	17	21	21
Casino Technical Night School, East Pittsburgh, Pa.	1	1	1
Catholic University of America, Washington, D. C.	0	0	1
Central Commercial and M. T. H. S., Newark, N. J.	1	1	1
Central High School, Washington, D. C.	0	0	1
Chestnut Hill Academy, Chestnut Hill, Pa.	1	1	1
Chicago, University of, Chicago, Ill.	2	2	2
Chicago Central Station Institute, Chicago, Ill.	1	1	1
Christian Brothers College, St. Louis, Mo.	2	2	2
Cincinnati, University of, Cincinnati, O.	9	11	9
Citadel, The, Charleston, S. C.	2	2	2
Clark College, Worcester, Mass.	2	1	1
Clarkson College of Technology, Potsdam, N. Y.	4	4	3
Clemson A. & M. College, Clemson College, S. C.	5	5	5
Cleveland Technical H. S., Cleveland, O.	3	3	3
College of the City of N. Y., New York, N. Y.	1	1	1
Colorado College, Colorado Springs, Colo.	2	2	2
Colorado School of Mines, Golden, Colo.	1	3	4

INSTITUTIONS REPRESENTED.

Colorado State Agri. College, Fort Collins, Colo.	6	5	5
Colorado, University of, Boulder, Colo.	19	25	24
College of the Pacific, San Jose, Calif.	0	0	1
Columbia University, New York, N. Y.	15	16	11
Cooper Union, New York, N. Y.	6	6	6
Cornell College, Mt. Vernon, Ia.	1	1	1
Cornell University, Ithaca, N. Y.	25	26	24
Cumberland University, Lebanon, Tenn.	1	1	1
Dartmouth College, Hanover, N. H.	6	5	4
David Rankin Jr. Sch., St. Louis, Mo.	2	2	1
Delaware College, Newark, Del.	4	5	5
Denver, University of, Denver, Colo.	1	1	1
Detroit, University of, Detroit, Mich.	1	1	1
Dickinson H. S., Jersey City, N. J.	3	3	2
Dorchester H. S., Dorchester Center, Mass.	1	1	1
Drexel Institute, Philadelphia, Pa.	11	11	11
Duval High School, Jacksonville, Fla.	1	1	1
Escola de Engenharia, Porto Alegre, Brazil	1	1	1
Florida, University of, Gainesville, Fla.	5	5	5
Franklin Institute, Philadelphia, Pa.	1	1	1
Franklin Union, Boston, Mass.	5	4	4
George Washington University, Washington, D. C.	3	3	3
Georgia School of Technology, Atlanta, Ga.	2	2	3
Girard College, Philadelphia, Pa.	1	1	1
Government Institute of Technology, Shanghai, China	2	3	3
Harvard University, Cambridge, Mass.	14	17	15
Haverford College, Haverford, Pa.	1	1	1
Hebrew Technical Institute, New York, N. Y.	1	1	1
Highland Park College, Des Moines, Ia.	4	3	3
Idaho, University of, Moscow, Ida.	4	4	3
Illinois, University of, Urbana, Ill.	47	47	46
Indiana University, Bloomington, Ind.	1	2	2
Instituto Technico Professional, Porto Alegre, Brazil	2	2	1
International Correspondence Schools, Scranton, Pa.	4	3	2
Iowa State College, Ames, Ia.	21	29	28
Iowa, State University of, Iowa City, Ia.	8	7	7
James Millikin University, Decatur, Ill.	2	1	1
Johns Hopkins University, Baltimore, Md.	5	5	6
John B. Stetson University, De Land, Fla.	0	1	1
Junior College of Crane Technical H. S., Chicago, Ill.	1	1	1
Kansas City M. T. H. S., Kansas City, Mo.	1	1	1
Kansas City N. E. H. S., Kansas City, Mo.	1	1	1
Kansas City Polytechnic Inst., Kansas City, Mo.	1	1	1
Kansas State Agri. College, Manhattan, Kans.	18	32	30

Kansas, University of, Lawrence, Kans.	16	16	18
Kentucky, State University of, Lexington, Ky.	4	3	3
Lafayette College, Easton, Pa.	3	5	5
Lehigh University, South Bethlehem, Pa.	14	14	13
Leland Stanford Jr. Univ., Stanford Univ., Calif.	3	4	5
Lewis Institute, Chicago, Ill.	3	3	3
Louisiana Industrial Institute, Ruston, La.	3	3	2
Louisiana State University, Baton Rouge, La.	3	3	3
McGill University, Montreal, Canada	5	5	5
McKinley High School, St. Louis, Mo.	1	1	1
Maine, University of, Orono, Me.	7	8	9
Manitoba, University of, Winnipeg, Man.	3	3	3
Marquette University, Milwaukee, Wis.	1	1	1
Maryland State College of Agri., College Park, Md.	0	0	1
Massachusetts Agri. College, Amherst, Mass.	1	1	1
Massachusetts Inst. of Tech., Boston, Mass.	36	33	40
Mechanics Institute, Rochester, N. Y.	1	3	3
Miami University, Oxford, O.	0	1	1
Michigan Agri. College, East Lansing, Mich.	11	10	9
Michigan College of Mines, Houghton, Mich.	7	10	9
Michigan, University of, Ann Arbor, Mich.	24	28	25
Milwaukee Public Schools, Milwaukee, Wis.	0	0	1
Milwaukee, School of Engineering of, Milwaukee, Wis.	0	0	1
Minnesota, University of, Minneapolis, Minn.	31	28	27
Mississippi A. & M. College, Agricultural College, Miss.	7	8	7
Mississippi, University of, University, Miss.	1	2	3
Missouri School of Mines, Rolla, Mo.	2	4	5
Missouri, University of, Columbia, Mo.	15	15	15
Montana Agri. College, Bozeman, Mont.	5	5	4
Montana, University of, Missoula, Mont.	2	2	2
Nebraska, University of, Lincoln, Nebr.	13	14	14
Nevada, University of, Reno, Nev.	3	3	3
Newark Manual Training H. S., Newark, N. J.	1	1	1
New Bedford Industrial School, New Bedford, Mass.	0	0	1
New Hampshire College, Durham, N. H.	1	4	4
New Mexico Coll. of A. & M. Arts, State College, N. M.	3	3	4
New Mexico School of Mines, Socorro, N. Mex.	0	0	1
New York Evening High School for Men, New York, N. Y.	1	1	1
New York Military College, Cornwall-on-Hudson, N. Y.	0	1	1
New York University, New York, N. Y.	7	8	9
North Carolina Agri. College, West Raleigh, N. C.	4	5	5
North Carolina, University of, Chapel Hill, N. C.	6	8	6
North Dakota Agri. College, Agricultural College, N. D.	2	2	1
North Dakota State Science School, Wahpeton, N. D.	1	1	1

18	North Dakota, University of, University, N. D.	5	5	5
3	Northwestern University, Evanston, Ill.	6	8	6
5	Notre Dame, University of, Notre Dame, Ind.	1	1	1
13	Norwegian Technical University, Trondhjem, Norway	1	1	1
5	Norwich University, Northfield, Vt.	1	1	1
3	Nova Scotia Technical College, Halifax, N. S.	2	2	2
2	Ohio Northern University, Ada, O.	2	2	2
3	Ohio State University, Columbus, O.	28	26	30
5	Oklahoma A. & M. College, Stillwater, Okla.	5	5	5
1	Oklahoma, University of, Norman, Okla.	4	4	5
9	Oregon Agri. College, Corvallis, Ore.	5	4	5
3	Oregon, University of, Eugene, Ore.	3	2	1
1	Oshkosh Normal School, Oshkosh, Wis.	0	1	1
1	Pasadena High School, Pasadena, Calif.	1	1	1
1	Pennsylvania College, Gettysburg, Pa.	1	2	2
40	Pennsylvania Military College, Chester, Pa.	2	2	2
3	Pennsylvania State College, State College, Pa.	25	21	23
1	Pennsylvania, University of, Philadelphia, Pa.	30	28	24
9	Pittsburgh, University of, Pittsburgh, Pa.	22	23	24
9	Polytechnic School of Engineering, Regents' St., London	1	1	1
25	Pomona College, Claremont, Calif.	1	1	1
1	Porto Rico, University of, Rio Piedras, P. R.	0	0	1
1	Pratt Institute, Brooklyn, N. Y.	7	5	6
27	Princeton University, Princeton, N. J.	4	7	7
7	Purdue University, LaFayette, Ind.	19	22	22
3	Queen's University, Kingston, Can.	2	1	1
5	Queensland, University of, Brisbane, Australia	2	2	2
15	Redlands, University of, Redlands, Calif.	0	1	1
4	Reed College, Portland, Ore.	1	2	1
2	Rensselaer Polytechnic Institute, Troy, N. Y.	8	5	6
14	Rhode Island State College, Kingston, R. I.	1	2	2
3	Rice Institute, Houston, Tex.	0	1	3
1	Robert College, Constantinople, Turkey	3	3	3
1	Rose Polytechnic Institute, Terre Haute, Ind.	4	4	3
4	Rutgers College, New Brunswick, N. J.	6	6	7
4	Santa Clara, University of, Santa Clara, Calif.	1	1	1
1	Saskatchewan, University of, Saskatoon, Canada.	0	1	1
1	Schenley High School, Pittsburgh, Pa.	0	0	1
1	Seattle Engineering School, Seattle, Wash.	0	1	1
9	Sheffield, University of, Sheffield, England	1	1	1
5	Southern California University, Los Angeles, Calif.	1	2	2
6	South Dakota State College, Brookings, S. D.	5	5	5
1	South Dakota, University of, Vermilion, S. D.	1	3	3
1				

St. Johns University, Shanghai, China	1	1	1
St. Mary College, Dayton, O.	0	0	1
Stevens Institute of Technology, Hoboken, N. J.	16	15	15
Swarthmore College, Swarthmore, Pa.	2	2	2
Sydney, University of, Sydney, Australia	1	1	1
Syracuse University, Syracuse, N. Y.	7	9	9
Technical High School, Edmonton, Alberta, Canada	1	1	1
Temple University, Philadelphia, Pa.	0	1	1
Tennessee, University of, Knoxville, Tenn.	3	4	5
Texas A. & M. College, College Station, Tex.	10	12	12
Texas, University of, Austin, Tex.	6	5	5
Texas State School of Mines and Metallurgy, Fort Bliss, Tex.	1	1	1
Throop College of Technology, Pasadena, Calif.	8	8	8
Tokyo Imperial University, Tokyo, Japan	1	1	1
Toledo University, Toledo, O.	1	1	2
Toronto, University of, Toronto, Canada	12	13	11
Trinity College, Hartford, Conn.	1	1	1
Tufts College, Tufts College, Mass.	14	13	14
Tulane University, New Orleans, La.	4	4	4
Union University, Schenectady, N. Y.	7	9	9
United States Naval Academy, Annapolis, Md.	2	2	2
Universidad de Chile, Santiago, Chile	3	3	3
Utah, University of, Salt Lake City, Utah	5	4	5
Valparaiso University, Valparaiso, Ind.	1	2	2
Vanderbilt University, Nashville, Tenn.	1	1	1
Vermont, University of, Burlington, Vt.	8	8	8
Villanova College, Villanova, Pa.	0	0	1
Virginia Episcopal School, Lynchburg, Va.	0	0	1
Virginia Military Institute, Lexington, Va.	3	2	2
Virginia Polytechnic Institute, Blacksburg, Va.	4	3	4
Virginia, University of, University, Va.	6	15	12
Washington & Lee University, Lexington, Va.	2	1	2
Washington State College, Pullman, Wash.	1	2	3
Washington University, St. Louis, Mo.	6	6	7
Washington, University of, Seattle, Wash.	12	13	11
Wentworth Institute, Boston, Mass.	12	12	13
West Philadelphia H. S. for Boys, Philadelphia, Pa.	1	1	1
Western Reserve Univ., Adelbert College, Cleveland, O.	0	1	1
West Technical H. S., Cleveland, O.	0	2	2
West Virginia University, Morgantown, W. Va.	7	8	8
Whitman College, Walla Walla, Wash.	3	2	2
William and Mary College, Williamsburg, Va.	0	0	1

INSTITUTIONS REPRESENTED.

Williamson Free School, Williamson School, Pa.	2	2	2
Wisconsin, University of, Madison, Wis.	29	27	24
Wooster, University of, Wooster, O.	1	1	1
Worcester Polytechnic Institute, Worcester, Mass.	16	16	14
Worcester Trade School, Worcester, Mass.	2	2	1
Wyoming, University of, Laramie, Wyo.	3	4	5
Yale University, New Haven, Conn.	23	22	21

GENERAL SUMMARY OF MEMBERSHIP.

MARCH 15, 1917.

Institutions Represented.	
Colleges and Universities Teaching Engineering.	
Domestic	158
Foreign	20
Manual, High, Correspondence and Trade Schools	24
Total Institutions	202
Institutional Members	58
Members	1,447
Total Members	1,505

GROWTH OF MEMBERSHIP.*

Aug.	20, 1894	156		
Sept.	2, 1895	184		
Aug.	20, 1896	200	(about)	
Aug.	16, 1897	203		
Aug.	18, 1898	226		
Aug.	17, 1899	238		
July	2, 1900	249		
June	29, 1901	261		
June	27, 1902	253		
July	1, 1903	271		
Sept.	1, 1904	325		
June	28, 1905	379		
July	2, 1906	400		
July	1, 1907	415		
June	27, 1908	675		
June	24, 1909	759		
June,	23, 1910	848		
June	27, 1911	1,071		
June	1912	1,102		
June,	1913	1,158		
March,	1914	1,291	Institutional members	48
July	1, 1915	1,403	Institutional members	49
March,	1916	1,447	Institutional members	57
March,	1917	1,447	Institutional members	58

* These figures are taken from the reports of the Secretary, presented at the annual meetings, except the figures for 1914 which were taken from the corresponding year book.

CONSTITUTION

OF THE

Society for the Promotion of Engineering Education

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1. NAME—This organization shall be called the SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

2. MEMBERS—Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering and scientific subjects.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, together with engineering practitioners and other persons interested in engineering education.

Honorary Members of the Society shall be such persons as may be recommended by unanimous vote of the Council after a letter ballot. In taking this ballot, the Secretary is directed to close the polls one month after the names of the candidates are sent out. Councilors not heard from will be counted in favor of the candidate. Honorary Members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

Any individual member not in arrears for dues may become a Life Member by paying Fifty Dollars into the treasury of the Society at one time.

The name of each candidate for individual membership shall be proposed in writing to the Council by two members by whom he is personally known. In the case of a candidate for Institutional membership the name shall be proposed by any member familiar with the work of the institution on receipt of an application signed by a responsible officer thereof. Such name, if approved by the Council, shall be voted on by the Society at the annual meeting, a vote of three-fourths of those present being required to elect; or, during the period between annual meetings, an affirmative letter ballot of three-fourths of those members of the Council whose vote reaches the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections shall be credited to the previous annual meeting and dues shall date from that time, except that elections to membership occurring after

February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

3. OFFICERS—There shall be a President, two Vice-Presidents, a Secretary and a Treasurer, each to hold office for one year, or until their successors have been elected and have qualified. The Officers shall be elected by ballot of the Society at the annual meeting.

4. COUNCIL—The Council of the Society shall consist of twenty-one elective members, one-third of whom shall retire annually. The Officers and the Past Presidents of the Society shall be members of the Council ex-officio.

Any member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from any one college.

Members of the Council shall be elected by ballot by the Society at its annual meeting.

The Council shall constitute a general executive body of the Society, pass on proposals for membership, elect candidates ad interim, attend to all business of the Society, receive and report on propositions for amendments to the constitution, and shall have power to fill temporary vacancies in the offices.

The President of the Society shall be Chairman of the Council, and the Secretary of the Society shall be Secretary of the Council and shall keep the minutes of its meetings and an accurate record of all its actions.

When votes taken by letter ballot of the Council shall be required, all votes which reach the Secretary within one month from the time of sending out the ballots shall be counted, but votes reaching the Secretary later than the time here specified shall not be counted.

5. NOMINATING COMMITTEE—The Nominating Committee shall consist of the Past Presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five.

6. FEES AND DUES—The admission fee for an individual, active member, which shall also include the first year's dues, shall be Four Dollars ($4.00), and the annual dues, which shall include the subscription price of the BULLETIN, provided for in Art. 8, shall be Four Dollars ($4.00), payable at the time of the annual meeting.

The admission fee for institutional members, which shall also include the first year's dues, shall be Ten Dollars ($10.00), and the annual dues, which shall include the subscription price of three copies of the BULLETIN, and of the PROCEEDINGS, provided for in Art. 8, shall be Ten Dollars ($10.00), payable at the time of the annual meeting.

The fiscal year shall end with the close (or adjournment) of the annual

meeting. Those in arrears more than one year shall not be entitled to vote, nor to receive copies of the PROCEEDINGS, and such members shall be notified thereof by the Secretary one month previous to the annual meeting. Any member who has been in arrears more than two years and duly notified by the Secretary, shall be dropped from the roll, until such arrearages are paid.

7. MEETINGS—There shall be an annual meeting at such time and place as the Society at the preceding annual meeting, or the Council may determine.

8. PUBLICATIONS—The publications of the Society shall include an annual volume of PROCEEDINGS, to be published and distributed to the membership as soon as possible after the annual meeting; and a monthly BULLETIN, to be published from September to June, inclusive.

9. AMENDMENTS—This Constitution may be amended by a two-thirds vote of those present at any regular meeting of the Society provided the amendment shall have been approved by the Council by letter ballot by a two-thirds vote of the members voting.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The Officers of the Society shall constitute a Committee to arrange for the annual meeting and to prepare a program for the same.

Second. The President, the Secretary and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to Committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. Reading of papers shall be limited to fifteen minutes each or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Fifth. The time occupied by each person in the discussion of any paper shall not exceed five minutes.

Sixth. The President, the Secretary and the retiring Secretary shall constitute a Publication Committee, of which the Secretary shall be Chairman, to edit and have charge of the publication of the monthly BULLETIN and the PROCEEDINGS of the Society, except the volume of Proceedings of the last convention, which shall be edited by the retiring

Secretary. If at any time there be no retiring Secretary the retiring President shall be a member of this Committee.

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C. L. Adams	1904	Sept. 16, 1914.	XXII, 414
Philip R. Alger	1909	February 23, 1912.	XX, Part II, 491
William A. Anthony	1907	May 29, 1908.	XVI, 409
George W. Atherton	1904	July 24, 1906.	XIV, 292
Warren Babcock	1908	May, 1913.	XXI, 434
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S. B. Charters, Jr.	1911	December 29, 1912.	XX, Part II, 493
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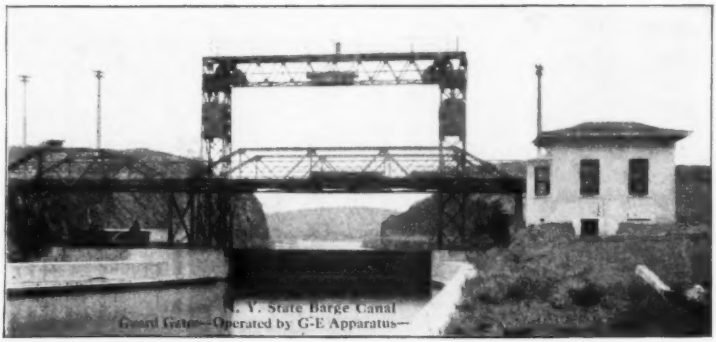
A. G. Smith	1909	Nov. 5, 1916.	



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